

APPENDIX C
Laboratory Analytical Reports



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

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04 November 2003

Ms. Dorinda Shipman
Treadwell & Rollo
555 Montgomery St.
Suite 1300
San Francisco, CA 94111

Subject: Cadmium Data for Presidio Firing Ranges (C&T Reports 166460, 166561, 166566, 166624, 166682)

Dear Ms. Shipman:

Curtis & Tompkins has investigated the cadmium results reported above 0.8 mg/Kg in the sample delivery groups (SDGs) listed above based upon a request by Dave Kleesattel of Treadwell & Rollo. The request was made September 18, 2003; the original analyses were completed on August 8, 2003.

These analyses were performed by ICP-AES (EPA 6010B), a technique that measures the presence of elements via their characteristic light spectra emitted when burned in a torch. Many elements have overlapping spectra that cause a well understood method bias toward false positives and over-limit error. C&T routinely implements procedures to minimize the effects of inter-element interferences in environmental measurements.

These samples contain reasonably high levels of Iron, an element that potentially interferes with low level Cadmium measurements. After discussion between Treadwell & Rollo and C&T about the original analysis performed in August, the original digestates still available in September were screened for cadmium using ICP-MS (EPA 6020) in order to remove the potential interference. All samples analyzed by ICP-MS produced ND (none detected) results for cadmium. The screen results were inserted into the table provided at the original request which is included as an attachment. Based on these observations, C&T is implementing additional procedures designed to reduce this type of inter-element interference.

I hope this addresses your concerns regarding this issue. If you have any questions or would like to discuss this information, please call me at (510)-486-0925 x 104.

Sincerely,

Steven Stanley
Project Manager

Sample ID (T&R)	Lab ID (C&T)	Cadmium (mg/kg)	Cadmium (mg/kg)
		ICP	ICP-MS
MGBSB06[1]	166460-017	1.2	<0.25
MGBSB16[1]	166460-001	1.7	<0.25
CHPSB02[0.3]	166624-041	1.1	No digest
CHPSB08[1]	166624-011	0.81	No digest
CHPSB12[2]	166624-037	0.97	No digest
CHPSB12[3]	166624-038	1.9	No digest
CHPSB22[0.3]	166561-042	1	<0.25
CHPSB25[1]	***	1	No digest
BAPSB10[1]MSD	166682-013	1.2	<0.25
BAPSB12[1]	166682-004	1.1	<0.25
BAPSB13[0.3]	166566-004	1.7	<0.25
BAPSB13[1]	166566-005	1.3	<0.25
DUP072503A	166561-029	1	<0.25
DUP08103C	166682-005	1.2	<0.25

"No digest" indicates the original digest has already been discarded

Table C-1
Analytical Data Index
Small Arms Firing Ranges
Presidio of San Francisco, California

Sample ID	Sample Date	Lab Sample ID
Lobos Creek Protected Range		
LCPSB01[0.3]	07/28/03	166599-012
LCPSB01[1]	07/28/03	166599-013
LCPSB02[0.3]	07/28/03	166599-018
LCPSB02[1]	07/28/03	166599-017
LCPSB03[0.3]	07/28/03	166599-015
LCPSB03[1]	07/28/03	166599-016
LCPSB04[0.3]	07/28/03	166599-010
LCPSB04[1]	07/28/03	166599-011
LCPSB05[0.3]	07/28/03	166599-008
LCPSB05[1]	07/28/03	166599-009
LCPSB06[0.3]	08/04/03	166716-010
LCPSB06[1]	08/04/03	166716-011
LCPSB07[0.3]	08/04/03	166716-012
LCPSB07[1]	08/04/03	166716-013
LCPSB08[1]	08/01/03	166668-029
LCPSB08[2]	08/01/03	166668-030
LCPSB09[1]	08/01/03	166668-026
LCPSB09[2]	08/01/03	166668-027
LCPSB10[1]	08/01/03	166668-031
LCPSB10[2][MSD]	08/01/03	166668-032
LCPSB11[1]	07/23/03	166535-017
LCPSB11[2]	07/23/03	166535-016
LCPSB12[1]	07/23/03	166535-018
LCPSB12[2]	07/23/03	166535-019
LCPSB13[1][MSD]	07/23/03	166535-014
LCPSB13[2]	07/23/03	166535-015
LCPSB14[1]	08/01/03	166668-023
LCPSB14[2]	08/01/03	166668-024
LCPSB15[1]	07/31/03	166668-020
LCPSB15[2]	07/31/03	166668-021
LCPSB16[1]	07/23/03	166535-012
LCPSB16[2]	07/23/03	166535-013
LCPSB17[1]	07/23/03	166535-010
LCPSB17[2]	07/23/03	166535-011
LCPSB18[0.3]	07/23/03	166535-020
LCPSB18[1]	07/23/03	166535-021
LCPSB19[0.3]	07/23/03	166535-022
LCPSB19[1]	07/23/03	166535-023
LCPSB20[1]	07/23/03	166535-029
LCPSB20[2.5]	07/23/03	166535-030
LCPSB21[1]	07/23/03	166535-027
LCPSB21[2.5]	07/23/03	166535-028
LCPSB22[1]	07/31/03	166668-016
LCPSB23[1]	07/31/03	166668-014
LCPSB24[1]	07/23/03	166535-031
LCPSB24[2.5]	07/23/03	166535-032
LCPSB25[1.5]	07/23/03	166535-033
LCPSB25[2.5]	07/23/03	166535-034
LCPSB26[0.3]	07/31/03	166668-018
LCPSB26[1]	07/31/03	166668-019
LCPSB27[1]	07/23/03	166535-024
LCPSB27[2]	07/23/03	166535-025
LCPSB28[1]	07/23/03	166535-003
LCPSB28[2]	07/23/03	166535-004
LCPSB29[1]	07/23/03	166535-001
LCPSB29[2]	07/23/03	166535-002
LCPSB30[1]	07/23/03	166494-019
LCPSB30[2]	07/23/03	166494-020

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Sample ID	Sample Date	Lab Sample ID
LCPSB31[1]	08/04/03	166716-008
LCPSB31[2]	08/04/03	166716-007
LCPSB32[1]	07/23/03	166494-017
LCPSB32[2]	07/23/03	166494-018
LCPSB33[1]	08/04/03	166716-004
LCPSB33[2]	08/04/03	166716-005
LCPSB34[1]	07/23/03	166494-012
LCPSB34[2]	07/23/03	166494-013
LCPSB35[1]	07/23/03	166494-015
LCPSB35[2]	07/23/03	166494-016
LCPSB36[1]	07/23/03	166535-005
LCPSB36[2]	07/23/03	166535-006
LCPSB37[1]	07/23/03	166535-007
LCPSB37[2]	07/23/03	166535-009
Lobos Creek Target Butt		
LCBSB01[0.3]	07/31/03	166668-011
LCBSB01[1]	07/31/03	166668-012
LCBSB02[1]	07/24/03	166561-020
LCBSB02[2.5]	07/24/03	166561-021
LCBSB03[1]	07/24/03	166561-024
LCBSB03[2.5]	07/24/03	166561-025
LCBSB04[0.3]	07/31/03	166668-006
LCBSB04[1]	07/31/03	166668-005
LCBSB05[0.3]	07/24/03	166561-018
LCBSB05[1]	07/24/03	166561-019
LCBSB06[1]	07/24/03	166561-026
LCBSB06[2]	07/24/03	166561-027
LCBSB07[1]	07/24/03	166561-014
LCBSB07[2]	07/24/03	166561-015
LCBSB08[0.3]	07/24/03	166561-012
LCBSB08[1]	07/24/03	166561-013
LCBSB09[0.3]	07/31/03	166668-003
LCBSB09[1]	07/31/03	166668-004
LCBSB10[0.5]	07/24/03	166561-010
LCBSB10[1.5]	07/24/03	166561-011
LCBSB11[0.3]	07/24/03	166561-016
LCBSB11[1]	07/24/03	166561-017
LCBSB12[0.3]	07/31/03	166668-009
LCBSB12[1]	07/31/03	166668-008
LCBSB13[0.3]	07/24/03	166561-001
LCBSB13[1]	07/24/03	166561-002
LCBSB14[0.3]	07/24/03	166561-003
LCBSB14[1]	07/24/03	166561-004
LCBSB15[1]	07/24/03	166561-007
LCBSB15[2]	07/24/03	166561-009
LCBSB16[0.3]	07/24/03	166561-005
LCBSB16[1]	07/24/03	166561-006
LCBSB17[0.3]	07/31/03	166645-019
LCBSB17[1]	07/31/03	166645-020
LCBSB18[1]	07/30/03	166645-017
LCBSB18[2]	07/30/03	166645-018
LCBSB19[1]	07/24/03	166535-038
LCBSB19[2]	07/24/03	166535-039
LCBSB20[1]	07/30/03	166645-013
LCBSB20[2][MSD]	07/30/03	166645-014
LCBSB21[1]	07/24/03	166535-035
LCBSB21[2]	07/24/03	166535-036
LCBSB22[1]	07/31/03	166668-001
LCBSB22[2]	07/31/03	166668-002

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Sample ID	Sample Date	Lab Sample ID
LCBSB23[1]	07/24/03	166535-043
LCBSB23[2]	07/24/03	166535-044
LCBSB24[1]	07/24/03	166535-045
LCBSB24[2.5]	07/24/03	166535-047
LCBSB25[1]	07/31/03	166645-034
LCBSB25[2]	07/31/03	166645-035
LCBSB26[1][MSD]	07/31/03	166645-031
LCBSB26[2]	07/31/03	166645-032
LCBSB27[0.3]	07/24/03	166535-059
LCBSB27[1]	07/24/03	166535-060
LCBSB28[0.3]	07/24/03	166535-057
LCBSB28[1]	07/24/03	166535-058
LCBSB29[0.3]	07/24/03	166535-055
LCBSB29[1]	07/24/03	166535-056
LCBSB30[0.3]	07/31/03	166645-028
LCBSB30[1]	07/31/03	166645-029
LCBSB31[0.3]	07/24/03	166535-053
LCBSB31[1]	07/24/03	166535-054
LCBSB32[0.3][MSD]	07/24/03	166535-051
LCBSB32[1]	07/24/03	166535-052
LCBSB33[1]	07/24/03	166535-049
LCBSB33[2]	07/24/03	166535-048
LCBSB34[0.3]	07/31/03	166645-026
LCBSB34[1]	07/31/03	166645-027
LCBSB35[1]	07/24/03	166535-040
LCBSB35[2]	07/24/03	166535-050
LCBSB36[0.3]	07/31/03	166645-021
LCBSB36[1]	07/31/03	166645-022
LCBSB37[0.3]	07/24/03	166535-042
LCBSB37[1]	07/24/03	166535-041
LCBSB38[0.3]	07/31/03	166645-024
LCBSB38[1][MSD]	07/31/03	166645-025
LCBSB39[0.3]	07/30/03	166645-007
LCBSB39[1][MSD]	07/30/03	166645-008
LCBSB40[0.3]	07/30/03	166645-011
LCBSB40[1]	07/30/03	166645-012
LCBSB41[0.3]	07/30/03	166645-005
LCBSB41[1]	07/30/03	166645-004
LCBSB42[0.3]	07/30/03	166645-009
LCBSB42[1]	07/30/03	166645-010
Machine Gun Butt		
MGBSB02[1]	07/22/03	166494-001
MGBSB02[2]	07/22/03	166494-002
MGBSB03[1]	07/22/03	166460-024
MGBSB03[2]	07/22/03	166460-025
MGBSB04[1]	07/22/03	166460-021
MGBSB04[2]	07/22/03	166460-023
MGBSB05[1]	07/22/03	166460-019
MGBSB05[2]	07/22/03	166460-020
MGBSB06[1]	07/22/03	166460-017
MGBSB06[2]	07/22/03	166460-018
MGBSB07[1]	07/22/03	166494-010
MGBSB07[2]	07/22/03	166494-011
MGBSB08[1]	07/22/03	166494-006
MGBSB08[2]	07/22/03	166494-007
MGBSB09[1]	07/22/03	166494-008
MGBSB09[2]	07/22/03	166494-009
MGBSB10[1]	07/22/03	166494-004

Table C-1
Analytical Data Index
Small Arms Firing Ranges
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Sample ID	Sample Date	Lab Sample ID
MGBSB10[2]	07/22/03	166494-005
MGBSB11[1]	07/21/03	166460-012
MGBSB11[2]	07/21/03	166460-013
MGBSB12[1]	07/21/03	166460-014
MGBSB12[2]	07/21/03	166460-015
MGBSB13[1]	07/21/03	166460-011
MGBSB14[0.5]	07/21/03	166460-009
MGBSB14[1]	07/21/03	166460-010
MGBSB15[1]	07/21/03	166460-008
MGBSB16[1]	07/21/03	166460-001
MGBSB16[2]	07/21/03	166460-002
MGBSB17[1]	07/21/03	166460-006
MGBSB17[2]	07/21/03	166460-007
MGBSB18[1]	07/21/03	166460-003
MGBSB18[2]	07/21/03	166460-004
MGBSB19[0.3]	07/21/03	166460-005
Barnard Avenue Protected Range		
BAPSB01[4.5][MSD]	07/25/03	166560-016
BAPSB01[5.5]	07/25/03	166560-017
BAPSB02[3]	07/25/03	166560-020
BAPSB02[5.5]	07/25/03	166560-021
BAPSB03R[5.5]	08/01/03	166682-001
BAPSB03R[6.5]	08/01/03	166682-019
BAPSB04[1][MSD]	08/01/03	166682-007
BAPSB04[3]	08/01/03	166682-008
BAPSB05[7][MSD]	08/01/03	166682-016
BAPSB05[8.5]	08/01/03	166682-018
BAPSB06[5.5]	07/25/03	166560-013 & 167188-008
BAPSB07[5.5]	08/01/03	166682-003
BAPSB08R[6.5]	08/01/03	166716-002
BAPSB08R[7.5]	08/01/03	166716-003
BAPSB09[0.3]	07/25/03	166560-005
BAPSB09[1]	07/25/03	166560-006
BAPSB10[1][MSD]	08/01/03	166682-013
BAPSB10[2]	08/01/03	166682-015
BAPSB11[2]	07/25/03	166560-004
BAPSB11[3]	08/01/03	166716-001
BAPSB12[1]	08/01/03	166682-004
BAPSB12[3]	08/01/03	166682-006
BAPSB13[0.3]	07/28/03	166566-004
BAPSB13[1]	07/28/03	166566-005
BAPSB14[0.3]	07/28/03	166599-006
BAPSB14[1][MSD]	07/28/03	166599-007
BAPSB15[0.3]	07/25/03	166560-001
BAPSB15[1]	07/25/03	166560-002
BAPSB16[0.3][MSD]	08/01/03	166682-010
BAPSB16[1]	08/01/03	166682-011
BAPSB17[0.3][MSD]	07/28/03	166599-003
BAPSB17[1][MSD]	07/28/03	166599-004
BAPSB18[0.3]	07/28/03	166599-001
BAPSB18[1]	07/28/03	166599-002
California Highway Patrol Pistol Range		
CHPSB01[0.3]	07/30/03	166624-044
CHPSB01[1]	07/30/03	166624-045
CHPSB01[2]	07/30/03	166624-046
CHPSB02[0.3]	07/30/03	166624-041 & 167188-004
CHPSB02[1]	07/30/03	166624-042
CHPSB02[2][MSD]	07/30/03	166624-043
CHPSB03[0.3]	07/30/03	166624-039 & 167188-005

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Sample ID	Sample Date	Lab Sample ID
CHPSB03[1]	07/30/03	166624-040
CHPSB03[2]	07/30/03	166645-001
CHPSB05[1]	07/29/03	166624-016 & 167188-003
CHPSB06[1]	07/29/03	166624-017 & 167188-001
CHPSB06[2]	07/29/03	166624-018
CHPSB06[3]	07/29/03	166624-019
CHPSB07[1]	07/29/03	166624-006 & 167188-002
CHPSB07[2]	07/29/03	166624-007 & 067188-006
CHPSB07[3]	07/29/03	166624-009 & 167188-007
CHPSB08[1]	07/29/03	166624-011
CHPSB08[2]	07/29/03	166624-012
CHPSB09[2]	07/29/03	166599-023
CHPSB09[3]	07/29/03	166599-024
CHPSB09[4]	07/29/03	166599-025
CHPSB10[2]	07/29/03	166599-026
CHPSB10[3]	07/29/03	166599-028
CHPSB10[4]	07/29/03	166599-029
CHPSB11[1]	07/30/03	166624-030
CHPSB11[2]	07/30/03	166624-031
CHPSB11[3][MSD]	07/30/03	166624-032
CHPSB12[1]	07/30/03	166624-036
CHPSB12[2]	07/30/03	166624-037
CHPSB12[3]	07/30/03	166624-038
CHPSB13[1]	07/30/03	166624-033
CHPSB13[2]	07/30/03	166624-034
CHPSB13[3]	07/30/03	166624-035
CHPSB14[1]	07/29/03	166624-013
CHPSB14[2]	07/29/03	166624-014
CHPSB14[3]	07/29/03	166624-015
CHPSB15[1]	07/29/03	166624-003
CHPSB15[2]	07/29/03	166624-004
CHPSB15[3]	07/29/03	166624-005
CHPSB16[0.3]	07/29/03	166599-030
CHPSB16[1]	07/29/03	166599-032
CHPSB16[2]	07/29/03	166599-033
CHPSB17[2]	07/29/03	166624-001
CHPSB17[3]	07/29/03	166624-002
CHPSB18[0.3]	07/29/03	166599-019
CHPSB18[1]	07/29/03	166599-020
CHPSB18[2]	07/29/03	166599-021
CHPSB19[2]	07/29/03	166624-020
CHPSB19[3]	07/29/03	166624-021
CHPSB19[4]	07/29/03	166624-022
CHPSB20[1]	07/29/03	166624-023
CHPSB20[2]	07/29/03	166624-024
CHPSB20[3]	07/29/03	166624-025
CHPSB21[0.3]	07/25/03	166561-045
CHPSB21[1]	07/25/03	166561-043
CHPSB21[2.5]	07/25/03	166561-044
CHPSB22[0.3]	07/25/03	166561-042
CHPSB22[1]	07/25/03	166561-046
CHPSB22[2.5]	07/25/03	166561-047
CHPSB23[0.3]	07/25/03	166561-039
CHPSB23[1]	07/25/03	166561-040
CHPSB23[2.5]	07/25/03	166561-041
CHPSB24[0.3]	07/25/03	166561-036
CHPSB24[1]	07/25/03	166561-037
CHPSB24[2.5]	07/25/03	166561-038
CHPSB25[1]	07/25/03	166561-030
CHPSB25[2]	07/25/03	166561-031

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Small Arms Firing Ranges
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Sample ID	Sample Date	Lab Sample ID
CHPSB25[3]	07/25/03	166561-032
CHPSB26[1]	07/25/03	166561-033
CHPSB26[3]	07/25/03	166561-034
CHPSB27[1]	07/29/03	166624-026
CHPSB27[2][MSD]	07/29/03	166624-027
CHPSB27[3]	07/29/03	166624-028
Duplicate Soil Samples		
DUP072203A	07/22/03	166460-022
DUP072303A	07/23/03	166494-014
DUP072303B	07/23/03	166535-008
DUP072403A	07/24/03	166535-037
DUP072403B	07/24/03	166535-046
DUP072403C	07/24/03	166561-008
DUP072403D	07/24/03	166561-022
DUP072503A	07/25/03	166561-029
DUP072503B	07/25/03	166560-019
DUP072803A	07/28/03	166599-005
DUP072903A	07/29/03	166599-022
DUP072903B	07/29/03	166599-027
DUP072903C	07/29/03	166599-031
DUP072903D	07/29/03	166624-008
DUP073003A	07/30/03	166624-029
DUP073003B	07/30/03	166645-002
DUP073003C	07/30/03	166645-003
DUP073003D	07/30/03	166645-015
DUP073003E	07/30/03	166645-016
DUP073103A	07/31/03	166645-023
DUP073103B	07/31/03	166645-030
DUP073103C	07/31/03	166645-033
DUP073103D	07/31/03	166668-015
DUP073103E	07/31/03	166668-022
DUP080103A	08/01/03	166668-025
DUP080103B	08/01/03	166668-028
DUP080103C	08/01/03	166682-005
DUP080103D	08/01/03	166682-009
DUP080103E	08/01/03	166682-012
DUP080103F	08/01/03	166682-017
DUP080403A	08/04/03	166716-006
Source Water Samples		
DW072503A	07/25/03	166561-028
DW073103	07/31/03	166668-007
Rinsate Blanks		
LCPSB[1]RB[2]	08/04/03	166716-009
LCPSB03[0.3]RB[1]	07/28/03	166599-014
LCPSB21[1]RBLCPBSB20[1]	07/23/03	166535-026
LCBSB12[0.3]RB[1]	07/31/03	166668-010
LCBSB03[1]RB[2.5]	07/24/03	166561-023
LCBSB41[0.3]RB[1]	07/30/03	166645-006
MGBSB02[1]RB[2]	07/22/03	166494-003
MGBSB11[2]RBMGBSB06[1]	07/21/03	166460-016
CHPSB07[1]RB[2]	07/29/03	166624-010

Notes

DUP - Duplicate Soil Sample

MSD - Matrix Spike/Matrix Spike Duplicate

RB - Denotes equipment rinsate sample



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166460

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio MOB

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
MGBSB16 [1]	166460-001	MGBSB12 [1]	166460-014
MGBSB16 [2]	166460-002	MGBSB12 [2]	166460-015
MGBSB18 [1]	166460-003	MGBSB11 [2] RBMGBSB06	166460-016
MGBSB18 [2]	166460-004	MGBSB06 [1]	166460-017
MGBSB19 [0.3]	166460-005	MGBSB06 [2]	166460-018
MGBSB17 [1]	166460-006	MGBSB05 [1]	166460-019
MGBSB17 [2]	166460-007	MGBSB05 [2]	166460-020
MGBSB15 [1]	166460-008	MGBSB04 [1]	166460-021
MGBSB14 [0.5]	166460-009	DUP072203A	166460-022
MGBSB14 [1]	166460-010	MGBSB04 [2]	166460-023
MGBSB13 [1]	166460-011	MGBSB03 [1]	166460-024
MGBSB11 [1]	166460-012	MGBSB03 [2]	166460-025
MGBSB11 [2]	166460-013		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/1/03

Signature: _____

Project Manager

Date: _____

8/1/03

Laboratory Number: **166460**
Client: **Treadwell & Rollo**
Project Name: **Presidio MOB**

Order Date: **07/22/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and twenty-five soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The soil matrix spike recoveries of sample MGBSB16 [1] (166460-001) were not meaningful for aluminum, iron, and manganese. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The soil matrix spike recoveries for antimony and magnesium of sample MGBSB16 [1] and for antimony and zinc of sample DUP072203A (166460-022) were outside acceptance limits. The associated soil blank spike recoveries were acceptable for all target elements.

Aluminum and iron were the only elements reported from MET01.

The serial dilution sample of 166460-022 analyzed on 7/24/03 at 13:25 was outside acceptance limits for arsenic.

Several of the continuing calibration standards (CCSs) from 7/25/03 of MET07 were outside acceptance limits for antimony and zinc, however, these standards did not bracket any reported results. The %D of the CCS tr211331 on MET07 was outside acceptance limits for aluminum, however, this standard did not bracket any reported results.

Trace level aluminum was detected in the continuing calibration blank (CCB) tr211332, however, this standard did not bracket any reported results.

The %D of the ICSAB tr211492 was outside acceptance limits for most elements, however, the standard did not bracket any reported results. No other analytical problems were encountered.

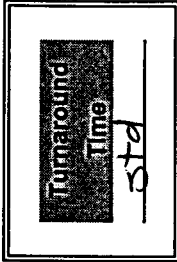
Chain of Custody

166460

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Oakland, CA 94612 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio MGB
 Job Number: 289307
 Project Manager/Contact: Dorinda Shipman
 Samplers: WSR
 Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative			Analysis Requested				Hold	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice			Other
-1 MGBSB16C17	7-21-03	0940		X									5 metals Pb, Cu, Zn, Ba
-2 MGBSB16C27	7-21-03	0950		X									9 metals Al, Sb, As, Ba, Bi, Cd, Cr, Co, Cu, Fe, Pb, Hg, Mn, Ni, Se, Ag, Ti, V, Zn
-3 MGBSB18C17	7-21-03	1010		X									
-4 MGBSB18C27	7-21-03	1020		X									
-5 MGBSB19C03	7-21-03	1100		X									
-6 MGBSB17C17	7-21-03	1140		X									
-7 MGBSB17C27	7-21-03	1150		X									
-8 MGBSB15C17	7-21-03	1220		X									
-9 MGBSB14C03	7-21-03	1430		X									
-10 MGBSB14C17	7-21-03	1445		X									
-11 MGBSB13C17	7-21-03	1515		X									
-12 MGBSB11C17	7-21-03	1610		X									
-13 MGBSB11C27	7-21-03	1620		X									
-14 MGBSB12C17	7-21-03	1550		X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	7-22-03	1117	<u>[Signature]</u>	7/22/03	11:23
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sent to Laboratory (Name):	Method of Shipment:	Lab courier	Fed Ex	Airborne	UPS
<u>Surplus Environmental</u>	<input checked="" type="checkbox"/> Hand Carried	<input type="checkbox"/> Private Courier (Co. Name)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laboratory Comments/Notes:					

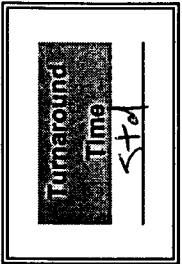
166466

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Emeryville, CA 94608 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: #6 BS @ Presidio-Firing Range
Job Number: 2893.07

Project Manager/Contact: Donna Chipman
Samplers: BJS / RRR
Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested	Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃				
-15 M6BSB12C2J#600	7-21-03	1600		X									19 metals Al, Sb, As, Ba, Be, Cd, Mn, Ni, Se, Pb, Mg, Ti, V, Zn, Cu, Co, Fe, Ag, Au, Sb, 5 metals - Pb, Ba, Cu, Zn, Pb, Sb
-16 M6BSB11C20RB M6BSB26C1J	7-22-03	900		X									
-17 M6BSB06C1J	7-22-03	910		X									
-18 M6BSB06C2J	7-22-03	930		X									
-19 M6BSB05C1J	7-22-03	940		X									
-20 M6BSB05C2J	7-22-03	951		X									
-21 M6BSB04C1J	7-22-03	952		X									
-22 DUP072203A	7-22-03	952		X									
-23 M6BSB04C2J	7-22-03	1035		X									
-24 M6BSB03C1J	7-22-03	1050		X									
-25 M6BSB03C2J	7-22-03												
Relinquished by: (Signature) <u>[Signature]</u> Date <u>7-22-03</u> Time <u>1117</u>													
Relinquished by: (Signature) <u>[Signature]</u> Date <u>7/22/03</u> Time <u>11:23</u>													
Relinquished by: (Signature) <u>[Signature]</u> Date <u>7/22/03</u> Time <u>11:23</u>													
Sent to Laboratory (Name): <u>Curtis & Tucker</u>													
Laboratory Comments/Notes:													

☐ Hand Carried ☐ Private Courier (Co. Name) ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166460 Date Received: 7/22/03 Number of Coolers: 1
Client: TREADWELL & ROLLO Project: PRESIDIO

A. Preliminary Examination Phase

Date Opened: 7/22/03 By (print): G. HAHN (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler?..... YES NO
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO ^{N/A}
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO ^{N/A}
7. Was project identifiable from custody papers?..... YES NO
If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
Type of ice: WET Temperature: COLD

B. Login Phase

Date Logged In: 7/22/03 By (print): G. HAHN (sign) [Signature]

1. Describe type of packing in cooler: BAGGED IN ZIPLOC
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO ^{N/A}
9. Was the client contacted concerning this sample delivery?..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	MGBSB11[2]RBMGBSB06	Sampled:	07/21/03
Matrix:	Water	Received:	07/22/03
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03
Batch#:	83128		

Type: SAMPLE Lab ID: 166460-016

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC220088

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83128
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Type: BS Lab ID: QC220089

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	552.0	110	80-120
Barium	2,000	2,000	100	80-120
Copper	250.0	250.0	100	80-120
Lead	100.0	103.0	103	80-120
Zinc	500.0	498.0	100	80-120

Type: BSD Lab ID: QC220090

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	558.0	112	80-120	1	20
Barium	2,000	2,030	102	80-120	1	20
Copper	250.0	254.0	102	80-120	2	20
Lead	100.0	105.0	105	80-120	2	20
Zinc	500.0	506.0	101	80-120	2	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83128
MSS Lab ID:	166471-001	Sampled:	07/22/03
Matrix:	Water	Received:	07/22/03
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Type: MS Lab ID: QC220091

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	556.0	111	75-125
Barium	475.0	2,000	2,410	97	75-125
Copper	<0.4200	250.0	257.0	103	75-125
Lead	<1.300	100.0	92.00	92	75-125
Zinc	27.40	500.0	496.0	94	75-125

Type: MSD Lab ID: QC220092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	572.0	114	75-125	3	20
Barium	2,000	2,480	100	75-125	3	20
Copper	250.0	265.0	106	75-125	3	20
Lead	100.0	95.10	95	75-125	3	20
Zinc	500.0	502.0	95	75-125	1	20

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73297038050	Seqnum : 73297038051
Filename : tr211385	Filename : tr211386
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166471-001	Samplenum: QC220093
Matrix : Water	Matrix : Water
Batchnum : 83128	Batchnum : 83128
Inj : 25-JUL-2003 11:38	Inj : 25-JUL-2003 11:41
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	ND	100	ND	500	--	10		u
Antimony	ND	60.0	ND	300	--	10		u
Arsenic	ND	5.00	ND	25.0	--	10		u
Barium	475	10.0	461	50.0	3	10		u
Beryllium	ND	2.00	ND	10.0	--	10		u
Cadmium	ND	5.00	ND	25.0	--	10		u
Calcium	*** usable MSS data not found ***							
Chromium	ND	10.0	ND	50.0	--	10		u
Cobalt	ND	20.0	ND	100	--	10		u
Copper	ND	10.0	ND	50.0	--	10		u
Iron	1660	100	1570	500	5	10		u
Lead	ND	3.00	ND	15.0	--	10		u
Magnesium	*** usable MSS data not found ***							
Manganese	3830	10.0	3860	50.0	1	10		u
Molybdenum	ND	20.0	ND	100	--	10		u
Nickel	ND	20.0	ND	100	--	10		u
Selenium	ND	5.00	ND	25.0	--	10		u
Silver	ND	5.00	ND	25.0	--	10		u
Thallium	ND	5.00	ND	25.0	--	10		u
Vanadium	10.1	10.0	ND	50.0	--	10		u
Zinc	27.4	20.0	ND	100	--	10		u
Titanium	17.5	10.0	ND	50.0	--	10		u

u=use

Page 1 of 1

Method: 6010B Standard: blank
Run Time: 07/25/03 06:22:22

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.126	.001	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	164.	46.5	59.3	1.48	.095	29.2	6.20
#1	-.002	.001	-.001	.001	-.126	.001	.000
#2	.000	.001	-.000	.001	-.126	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.002	-.000	.000	.001	-.001
SDev	.000	.000	.000	.000	.000	.000	.001
%RSD	120.	10.9	.870	72.2	76.9	7.07	56.1
#1	-.000	-.003	.002	-.001	.000	.001	-.002
#2	-.000	-.002	.002	-.000	.000	.001	-.001
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0353	-.0060
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	31.6	52.8	96.2	23.3	.698	.2434	.3886
#1	.001	.000	-.000	.000	.006	.0353	-.0060
#2	.001	.001	-.001	.001	.006	.0354	-.0060
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0008	.0000	.000	.073			
SDev	.0000	.0000	.000	.000			
%RSD	2.299	28.07	70.5	.406			
#1	-.0008	.0000	.000	.072			
#2	-.0008	.0000	.000	.073			

Method: 6010B Standard: cst hi
Run Time: 07/25/03 06:29:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.192	.108	.044	5.65	.776	.256	.062
SDev	.009	.005	.000	.01	.001	.001	.000
%RSD	4.52	4.47	.384	.128	.101	.197	.174
#1	.186	.105	.044	5.65	.775	.256	.062
#2	.199	.112	.044	5.64	.776	.257	.063
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.170	.153	.194	.175	.335	.440	.050
SDev	.000	.000	.001	.000	.000	.001	.000
%RSD	.058	.155	.615	.127	.017	.146	.334
#1	.170	.153	.195	.175	.335	.439	.050
#2	.170	.154	.193	.175	.335	.440	.050
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.057	.095	.030	.245	.040	.0679	.0787
SDev	.000	.000	.000	.000	.000	.0001	.0002
%RSD	.253	.194	.006	.065	.147	.1926	.1993
#1	.057	.095	.030	.245	.040	.0680	.0785
#2	.057	.096	.030	.245	.040	.0678	.0788
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0323	.0480	.281	2.22			
SDev	.0001	.0001	.000	.00			
%RSD	.3887	.1411	.027	.008			
#1	.0322	.0480	.281	2.22			
#2	.0324	.0481	.281	2.22			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5152.90	3.60125	07/25/03 06:29:23
Sb206A	206.832	Multiple	Standards	9121.50	-6.93364	07/25/03 06:29:23
As1890	189.042	Multiple	Standards	11243.1	4.27380	07/25/03 06:29:23
Ba4934	493.409	Multiple	Standards	177.056	-.138188	07/25/03 06:29:23
Be3130	313.042	Multiple	Standards	107.165	13.4879	07/25/03 06:29:23
Cd2265	226.502	Multiple	Standards	391.407	-.389153	07/25/03 06:29:23
Cr2677	267.716	Multiple	Standards	3221.07	-.978804	07/25/03 06:29:23
Co2286	228.616	Multiple	Standards	2942.44	.264554	07/25/03 06:29:23
Cu3247	324.754	Multiple	Standards	1281.02	3.39276	07/25/03 06:29:23
Pb2203	220.351	Multiple	Standards	2599.64	-4.63236	07/25/03 06:29:23
Pb220A	220.352	Multiple	Standards	2826.80	1.03562	07/25/03 06:29:23
Mo2020	202.030	Multiple	Standards	2986.14	-.722487	07/25/03 06:29:23
Ni2316	231.604	Multiple	Standards	1137.53	-.974300	07/25/03 06:29:23
Se1960	196.021	Multiple	Standards	9695.22	13.7360	07/25/03 06:29:23
Se196A	196.022	Multiple	Standards	8940.83	-9.87679	07/25/03 06:29:23
Ag3280	328.068	Multiple	Standards	1052.60	-.465004	07/25/03 06:29:23
Tl1908	190.864	Multiple	Standards	16297.6	7.75843	07/25/03 06:29:23
V_2924	292.402	Multiple	Standards	2045.16	-1.01676	07/25/03 06:29:23
Zn2138	213.856	Multiple	Standards	3096.23	-19.6311	07/25/03 06:29:23
Al3082	308.215	Multiple	Standards	31109.3	-1099.03	07/25/03 06:29:23
Ca3179	317.933	Multiple	Standards	23617.0	142.401	07/25/03 06:29:23
Fe2714	271.441	Multiple	Standards	31509.3	24.3736	07/25/03 06:29:23
Mg2790	279.079	Multiple	Standards	41643.7	-1.43765	07/25/03 06:29:23
Mn2576	257.610	Multiple	Standards	355.786	-.088393	07/25/03 06:29:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Ti3349	334.941	Multiple	Standards	466.157	-33.8220	07/25/03 06:29:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038001

Run Name :
Filename : tr211336

Injected : 25-JUL-2003 06:38
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	1007.000	ug/L	1		5	
Antimony	1000.000	956.0000	ug/L	-4		5	
Arsenic	500.0000	503.0000	ug/L	1		5	
Barium	1000.000	998.0000	ug/L	0		5	
Beryllium	100.0000	98.60000	ug/L	-1		5	
Cadmium	100.0000	99.10000	ug/L	-1		5	
Calcium	2000.000	1966.000	ug/L	-2		5	
Chromium	200.0000	197.0000	ug/L	-2		5	
Cobalt	500.0000	495.0000	ug/L	-1		5	
Copper	200.0000	199.0000	ug/L	-1		5	
Iron	1000.000	981.6000	ug/L	-2		5	
Lead	500.0000	499.0000	ug/L	0		5	
Magnesium	2000.000	1981.000	ug/L	-1		5	
Manganese	100.0000	99.00000	ug/L	-1		5	
Molybdenum	1000.000	1030.000	ug/L	3		5	
Nickel	500.0000	497.0000	ug/L	-1		5	
Selenium	500.0000	502.0000	ug/L	0		5	
Silver	100.0000	99.40000	ug/L	-1		5	
Thallium	500.0000	503.0000	ug/L	1		5	
Titanium	1000.000	994.0000	ug/L	-1		5	
Vanadium	500.0000	495.0000	ug/L	-1		5	
Zinc	100.0000	98.80000	ug/L	-1		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038002

Run Name :
Filename : tr211337

Injected : 25-JUL-2003 06:48
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	494.3000	ug/L	-1		10	
Antimony	500.0000	506.0000	ug/L	1		10	
Arsenic	250.0000	260.0000	ug/L	4		10	
Barium	500.0000	499.0000	ug/L	0		10	
Beryllium	50.00000	50.30000	ug/L	1		10	
Cadmium	50.00000	49.20000	ug/L	-2		10	
Calcium	1000.000	980.8000	ug/L	-2		10	
Chromium	100.0000	99.90000	ug/L	0		10	
Cobalt	250.0000	252.0000	ug/L	1		10	
Copper	100.0000	101.0000	ug/L	1		10	
Iron	500.0000	482.8000	ug/L	-3		10	
Lead	250.0000	249.0000	ug/L	0		10	
Magnesium	1000.000	1029.000	ug/L	3		10	
Manganese	50.00000	50.10000	ug/L	0		10	
Molybdenum	500.0000	505.0000	ug/L	1		10	
Nickel	250.0000	256.0000	ug/L	2		10	
Selenium	250.0000	245.0000	ug/L	-2		10	
Silver	50.00000	50.30000	ug/L	1		10	
Thallium	250.0000	246.0000	ug/L	-2		10	
Titanium	500.0000	514.0000	ug/L	3		10	
Vanadium	250.0000	252.0000	ug/L	1		10	
Zinc	50.00000	51.40000	ug/L	3		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038004

Run Name :
Filename : tr211339

Injected : 25-JUL-2003 07:37
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	79.77000	ug/L	-20	50	
Antimony	60.00000	58.50000	ug/L	-3	50	
Arsenic	5.000000	3.400000	ug/L	-32	50	
Barium	10.00000	9.510000	ug/L	-5	50	
Beryllium	2.000000	1.490000	ug/L	-26	50	
Cadmium	5.000000	4.320000	ug/L	-14	50	
Chromium	10.00000	8.330000	ug/L	-17	50	
Cobalt	20.00000	18.30000	ug/L	-9	50	
Copper	10.00000	6.950000	ug/L	-31	50	
Iron	100.0000	79.88000	ug/L	-20	50	
Lead	3.000000	2.880000	ug/L	-4	50	
Manganese	10.00000	9.500000	ug/L	-5	50	
Molybdenum	20.00000	17.10000	ug/L	-15	50	
Nickel	20.00000	18.90000	ug/L	-6	50	
Selenium	5.000000	6.510000	ug/L	30	50	
Silver	5.000000	4.990000	ug/L	0	50	
Thallium	5.000000	4.630000	ug/L	-7	50	
Vanadium	10.00000	9.570000	ug/L	-4	50	
Zinc	20.00000	20.60000	ug/L	3	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038013

Run Name :
Filename : tr211348

Injected : 25-JUL-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	472.0000	ug/L	-6	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	52.80000	ug/L	6	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	1087.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	497.2000	ug/L	-1	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.50000	ug/L	1	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.20000	ug/L	2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	51.80000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038025

Run Name :
Filename : tr211360

Injected : 25-JUL-2003 09:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.4000	ug/L	-4	10	
Antimony		750.0000	727.0000	ug/L	-3	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1488.000	ug/L	-1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	755.0000	ug/L	1	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1508.000	ug/L	1	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	761.0000	ug/L	1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	370.0000	ug/L	-1	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038037

Run Name :
Filename : tr211372

Injected : 25-JUL-2003 10:25
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.1000	ug/L	-2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	52.30000	ug/L	5	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	977.9000	ug/L	-2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	512.1000	ug/L	2	10	
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	52.00000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038048

Run Name :
Filename : tr211383

Injected : 25-JUL-2003 11:20
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	788.7000	ug/L	5	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	737.0000	ug/L	-2	10	
Beryllium		75.00000	78.20000	ug/L	4	10	
Cadmium		75.00000	75.80000	ug/L	1	10	
Calcium		1500.000	1430.000	ug/L	-5	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	377.0000	ug/L	1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	750.1000	ug/L	0	10	
Lead		375.0000	390.0000	ug/L	4	10	
Magnesium		1500.000	1532.000	ug/L	2	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	777.0000	ug/L	4	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	388.0000	ug/L	3	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	378.0000	ug/L	1	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	77.20000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038060

Run Name :
Filename : tr211395

Injected : 25-JUL-2003 12:32
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	261.8000	ug/L	5	10	
Antimony		250.0000	273.0000	ug/L	9	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	247.0000	ug/L	-1	10	
Beryllium		25.00000	25.70000	ug/L	3	10	
Cadmium		25.00000	24.60000	ug/L	-2	10	
Calcium		500.0000	482.9000	ug/L	-3	10	
Chromium		50.00000	49.00000	ug/L	-2	10	
Cobalt		125.0000	124.0000	ug/L	-1	10	
Copper		50.00000	47.70000	ug/L	-5	10	
Iron		250.0000	227.5000	ug/L	-9	10	
Lead		125.0000	123.0000	ug/L	-2	10	
Magnesium		500.0000	511.3000	ug/L	2	10	
Manganese		25.00000	24.40000	ug/L	-2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	126.0000	ug/L	1	10	
Selenium		125.0000	127.0000	ug/L	2	10	
Silver		25.00000	25.10000	ug/L	0	10	
Thallium		125.0000	123.0000	ug/L	-2	10	
Titanium		250.0000	262.0000	ug/L	5	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	27.40000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038072

Run Name :
Filename : tr211407

Injected : 25-JUL-2003 13:34
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	525.4000	ug/L	5	10	
Antimony		500.0000	483.0000	ug/L	-3	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	51.30000	ug/L	3	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	1063.000	ug/L	6	10	
Chromium		100.0000	98.50000	ug/L	-2	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	96.50000	ug/L	-4	10	
Iron		500.0000	477.7000	ug/L	-4	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	47.70000	ug/L	-5	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	49.90000	ug/L	0	10	
Thallium		250.0000	264.0000	ug/L	6	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038084

Run Name :
Filename : tr211419

Injected : 25-JUL-2003 14:18
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	736.6000	ug/L	-2	10	
Antimony		750.0000	699.0000	ug/L	-7	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	719.0000	ug/L	-4	10	
Beryllium		75.00000	74.90000	ug/L	0	10	
Cadmium		75.00000	71.10000	ug/L	-5	10	
Calcium		1500.000	1531.000	ug/L	2	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	361.0000	ug/L	-4	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	718.4000	ug/L	-4	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1475.000	ug/L	-2	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	718.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	357.0000	ug/L	-5	10	
Silver		75.00000	73.20000	ug/L	-2	10	
Thallium		375.0000	351.0000	ug/L	-6	10	
Titanium		750.0000	738.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	72.90000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038096

Run Name :
Filename : tr211431

Injected : 25-JUL-2003 15:11
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.0000	ug/L	2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	52.10000	ug/L	4	10	
Cadmium		50.00000	49.60000	ug/L	-1	10	
Calcium		1000.000	1092.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	96.20000	ug/L	-4	10	
Iron		500.0000	501.3000	ug/L	0	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	52.40000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038108

Run Name :
Filename : tr211443

Injected : 25-JUL-2003 15:55
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	766.3000	ug/L	2	10	
Antimony		750.0000	724.0000	ug/L	-3	10	
Arsenic		375.0000	395.0000	ug/L	5	10	
Barium		750.0000	760.0000	ug/L	1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	75.40000	ug/L	1	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	727.1000	ug/L	-3	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1520.000	ug/L	1	10	
Manganese		75.00000	71.80000	ug/L	-4	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	73.70000	ug/L	-2	10	
Thallium		375.0000	369.0000	ug/L	-2	10	
Titanium		750.0000	760.0000	ug/L	1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	76.90000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038120

Run Name :
Filename : tr211456

Injected : 25-JUL-2003 16:54
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.0000	ug/L	-5	10	
Antimony		500.0000	519.0000	ug/L	4	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	961.2000	ug/L	-4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	96.70000	ug/L	-3	10	
Iron		500.0000	504.7000	ug/L	1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1016.000	ug/L	2	10	
Manganese		50.00000	49.40000	ug/L	-1	10	
Molybdenum		500.0000	492.0000	ug/L	-2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	50.80000	ug/L	2	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	52.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038132

Run Name :
Filename : tr211468

Injected : 25-JUL-2003 17:59
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	685.4000	ug/L	-9		10	
Antimony		750.0000	922.0000	ug/L	23		10	1 ***
Arsenic		375.0000	388.0000	ug/L	3		10	
Barium		750.0000	734.0000	ug/L	-2		10	
Beryllium		75.00000	77.70000	ug/L	4		10	
Cadmium		75.00000	74.80000	ug/L	0		10	
Calcium		1500.000	1442.000	ug/L	-4		10	
Chromium		150.0000	157.0000	ug/L	5		10	
Cobalt		375.0000	374.0000	ug/L	0		10	
Copper		150.0000	147.0000	ug/L	-2		10	
Iron		750.0000	801.3000	ug/L	7		10	
Lead		375.0000	360.0000	ug/L	-4		10	
Magnesium		1500.000	1486.000	ug/L	-1		10	
Manganese		75.00000	73.90000	ug/L	-1		10	
Molybdenum		750.0000	730.0000	ug/L	-3		10	
Nickel		375.0000	382.0000	ug/L	2		10	
Selenium		375.0000	370.0000	ug/L	-1		10	
Silver		75.00000	73.40000	ug/L	-2		10	
Thallium		375.0000	373.0000	ug/L	-1		10	
Titanium		750.0000	753.0000	ug/L	0		10	
Vanadium		375.0000	371.0000	ug/L	-1		10	
Zinc		75.00000	78.50000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038143

Run Name :
Filename : tr211479

Injected : 25-JUL-2003 18:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	732.1000	ug/L	-2	10	
Antimony		750.0000	951.0000	ug/L	27	10	1 ***
Arsenic		375.0000	399.0000	ug/L	6	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	79.70000	ug/L	6	10	
Cadmium		75.00000	78.00000	ug/L	4	10	
Calcium		1500.000	1397.000	ug/L	-7	10	
Chromium		150.0000	159.0000	ug/L	6	10	
Cobalt		375.0000	382.0000	ug/L	2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	804.2000	ug/L	7	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1509.000	ug/L	1	10	
Manganese		75.00000	74.00000	ug/L	-1	10	
Molybdenum		750.0000	752.0000	ug/L	0	10	
Nickel		375.0000	395.0000	ug/L	5	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	73.30000	ug/L	-2	10	
Thallium		375.0000	378.0000	ug/L	1	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	375.0000	ug/L	0	10	
Zinc		75.00000	81.00000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038153

Run Name :
Filename : tr211489

Injected : 25-JUL-2003 19:19
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	740.7000	ug/L	-1	10	
Antimony		750.0000	1070.000	ug/L	43	10	1 ***
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	752.0000	ug/L	0	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	75.60000	ug/L	1	10	
Calcium		1500.000	1307.000	ug/L	-13	10	1 ***
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	144.0000	ug/L	-4	10	
Iron		750.0000	779.0000	ug/L	4	10	
Lead		375.0000	368.0000	ug/L	-2	10	
Magnesium		1500.000	1447.000	ug/L	-4	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	746.0000	ug/L	-1	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	71.90000	ug/L	-4	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	750.0000	ug/L	0	10	
Vanadium		375.0000	365.0000	ug/L	-3	10	
Zinc		75.00000	83.00000	ug/L	11	10	1 ***

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038003
Filename: tr211338

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 25-JUL-2003 06:53

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<	RL
Antimony	[3.0800]		60.00000	ug/L	<	RL
Arsenic	[1.8000]		5.000000	ug/L	<	RL
Barium	[0.1370]		10.00000	ug/L	<	RL
Beryllium		ND	2.000000	ug/L	<	RL
Cadmium		ND	5.000000	ug/L	<	RL
Calcium		ND	500.0000	ug/L	<	RL
Chromium		ND	10.00000	ug/L	<	RL
Cobalt		ND	10.00000	ug/L	<	RL
Copper		ND	10.00000	ug/L	<	RL
Iron		ND	100.0000	ug/L	<	RL
Lead		ND	3.000000	ug/L	<	RL
Magnesium	[6.5060]		500.0000	ug/L	<	RL
Manganese		ND	10.00000	ug/L	<	RL
Molybdenum	[3.9400]		20.00000	ug/L	<	RL
Nickel		ND	20.00000	ug/L	<	RL
Selenium		ND	5.000000	ug/L	<	RL
Silver		ND	5.000000	ug/L	<	RL
Thallium		ND	5.000000	ug/L	<	RL
Titanium	[6.3100]		10.00000	ug/L	<	RL
Vanadium		ND	10.00000	ug/L	<	RL
Zinc	[1.5500]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038014
Filename: tr211349

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 08:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[5.4350]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1000]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[5.9330]	100.0000	ug/L	<RL	
Lead	[0.7710]	3.000000	ug/L	<RL	
Magnesium	[6.1790]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.6900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.6500]	5.000000	ug/L	<RL	
Silver	[0.6100]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.1600]	10.00000	ug/L	<RL	
Vanadium	[0.1100]	10.00000	ug/L	<RL	
Zinc	[2.1800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038026
Filename: tr211361

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 09:35

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000		ug/L	<RL	
Antimony	ND	60.00000		ug/L	<RL	
Arsenic	ND	5.000000		ug/L	<RL	
Barium	[0.1610]	10.00000		ug/L	<RL	
Beryllium	ND	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	ND	500.0000		ug/L	<RL	
Chromium	ND	10.00000		ug/L	<RL	
Cobalt	ND	10.00000		ug/L	<RL	
Copper	ND	10.00000		ug/L	<RL	
Iron	[8.0250]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	[9.0610]	500.0000		ug/L	<RL	
Manganese	ND	10.00000		ug/L	<RL	
Molybdenum	[2.8400]	20.00000		ug/L	<RL	
Nickel	ND	20.00000		ug/L	<RL	
Selenium	[3.0000]	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	ND	5.000000		ug/L	<RL	
Titanium	[7.7900]	10.00000		ug/L	<RL	
Vanadium	ND	10.00000		ug/L	<RL	
Zinc	[2.2600]	20.00000		ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038038
Filename: tr211373

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 10:29

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[8.4260]	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.1340]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	ND	500.0000		ug/L	<	RL
Chromium	[0.2270]	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	[13.380]	100.0000		ug/L	<	RL
Lead	[0.0500]	3.000000		ug/L	<	RL
Magnesium	[4.2040]	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	[4.7900]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	[0.1750]	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[7.9200]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	[2.3100]	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038049
Filename: tr211384

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 11:25

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[3.7730]	100.0000	ug/L	<RL	
Antimony	[5.0000]	60.00000	ug/L	<RL	
Arsenic	[3.5600]	5.000000	ug/L	<RL	
Barium	[0.1850]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.8440]	500.0000	ug/L	<RL	
Chromium	[0.3040]	10.00000	ug/L	<RL	
Cobalt	[0.3100]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[3.2340]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.3100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[4.5700]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.9800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[6.2600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038061
Filename: tr211396

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 12:46

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[28.230]	100.0000	ug/L	<RL		
Antimony	[5.1200]	60.00000	ug/L	<RL		
Arsenic	[4.7600]	5.000000	ug/L	<RL		
Barium	[0.2690]	10.00000	ug/L	<RL		
Beryllium	[0.7170]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[10.220]	100.0000	ug/L	<RL		
Lead	[2.1900]	3.000000	ug/L	<RL		
Magnesium	[10.960]	500.0000	ug/L	<RL		
Manganese	[0.0370]	10.00000	ug/L	<RL		
Molybdenum	[4.3600]	20.00000	ug/L	<RL		
Nickel	[0.2650]	20.00000	ug/L	<RL		
Selenium	[1.5100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[8.2600]	10.00000	ug/L	<RL		
Vanadium	[0.1400]	10.00000	ug/L	<RL		
Zinc	[5.5900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038073
Filename: tr211408

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 13:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[74.720]	100.0000	ug/L	<RL		
Antimony	[5.6300]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2250]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[17.570]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0750]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[0.2779]	100.0000	ug/L	<RL		
Lead	[1.1000]	3.000000	ug/L	<RL		
Magnesium	[12.440]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[7.3800]	20.00000	ug/L	<RL		
Nickel	[0.4710]	20.00000	ug/L	<RL		
Selenium	[4.9900]	5.000000	ug/L	<RL		
Silver	[0.3450]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[8.6400]	10.00000	ug/L	<RL		
Vanadium	[1.2200]	10.00000	ug/L	<RL		
Zinc	[5.4800]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038085
Filename: tr211420

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 14:25

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[42.800]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2660]		10.00000	ug/L	<	RL
Beryllium	[0.0660]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[15.410]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.8060]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[7.3000]		20.00000	ug/L	<	RL
Nickel	[0.5180]		20.00000	ug/L	<	RL
Selenium	[4.2000]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[9.7900]		10.00000	ug/L	<	RL
Vanadium	[0.7910]		10.00000	ug/L	<	RL
Zinc	[3.3700]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038097
Filename: tr211432

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 15:15

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[45.690]	100.0000	ug/L	<RL		
Antimony	[9.1800]	60.00000	ug/L	<RL		
Arsenic	[4.3500]	5.000000	ug/L	<RL		
Barium	[0.0860]	10.00000	ug/L	<RL		
Beryllium	[1.2000]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[40.000]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.9680]	100.0000	ug/L	<RL		
Lead	[0.0290]	3.000000	ug/L	<RL		
Magnesium	[17.180]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[6.7100]	20.00000	ug/L	<RL		
Nickel	[1.1300]	20.00000	ug/L	<RL		
Selenium	[1.9800]	5.000000	ug/L	<RL		
Silver	[0.0690]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.2300]	10.00000	ug/L	<RL		
Vanadium	[1.7700]	10.00000	ug/L	<RL		
Zinc	[3.7900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038109
Filename: tr211444

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 16:01

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[55.160]	100.0000	ug/L	<RL	
Antimony	[5.8400]	60.00000	ug/L	<RL	
Arsenic	[1.9700]	5.000000	ug/L	<RL	
Barium	[0.1040]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3590]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[0.7679]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[11.100]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.3000]	20.00000	ug/L	<RL	
Nickel	[0.0670]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.0200]	10.00000	ug/L	<RL	
Vanadium	[0.2310]	10.00000	ug/L	<RL	
Zinc	[3.8100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038121
Filename: tr211457

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 17:04

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[22.730]	100.0000	ug/L	<RL	
Antimony	[24.000]	60.00000	ug/L	<RL	
Arsenic	[0.7990]	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	[1.2600]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2510]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.5700]	3.000000	ug/L	<RL	
Magnesium	[8.6450]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5400]	10.00000	ug/L	<RL	
Vanadium	[0.0390]	10.00000	ug/L	<RL	
Zinc	[4.7500]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038134
Filename: tr211470

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 18:08

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[34.040]	100.0000	ug/L	<RL		
Antimony	[4.0200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1360]	10.00000	ug/L	<RL		
Beryllium	[1.3800]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[3.1800]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[55.120]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[5.2450]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[1.3000]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.2700]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[4.6300]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038145
Filename: tr211481

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 18:50

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[88.450]	100.0000	ug/L	<RL		
Antimony	[5.2800]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0920]	10.00000	ug/L	<RL		
Beryllium	2.660000	2.000000	ug/L	<RL	d ***	
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[3.2800]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[49.130]	100.0000	ug/L	<RL		
Lead	[0.1820]	3.000000	ug/L	<RL		
Magnesium	[5.4360]	500.0000	ug/L	<RL		
Manganese	[0.0250]	10.00000	ug/L	<RL		
Molybdenum	[4.3200]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[3.6000]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[5.4500]	20.00000	ug/L	<RL		

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038155
Filename: tr211491

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 19:29

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[91.290]	100.0000	ug/L	<RL	
Antimony	[28.800]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1040]	10.00000	ug/L	<RL	
Beryllium	3.490000	2.000000	ug/L	<RL	d ***
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[3.6000]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[57.800]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.8620]	500.0000	ug/L	<RL	
Manganese	[0.1770]	10.00000	ug/L	<RL	
Molybdenum	[4.5900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.0800]	5.000000	ug/L	<RL	
Titanium	[2.7800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[4.4500]	20.00000	ug/L	<RL	

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INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038005

Run Name :
Filename : tr211340

Injected : 25-JUL-2003 07:45
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	544000.0	ug/L	9			
Antimony	500.0000	457.0000	ug/L	-9	20		
Arsenic	500.0000	526.0000	ug/L	5	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	508.0000	ug/L	2	20		
Cadmium	1000.000	941.0000	ug/L	-6	20		
Calcium	500000.0	504900.0	ug/L	1			
Chromium	500.0000	474.0000	ug/L	-5	20		
Cobalt	500.0000	476.0000	ug/L	-5	20		
Copper	500.0000	558.0000	ug/L	12	20		
Iron	200000.0	183300.0	ug/L	-8			
Lead	1000.000	852.0000	ug/L	-15	20		
Magnesium	500000.0	526400.0	ug/L	5			
Manganese	500.0000	491.0000	ug/L	-2	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	515.0000	ug/L	3	20		
Silver	1000.000	1080.000	ug/L	8	20		
Thallium	500.0000	456.0000	ug/L	-9	20		
Titanium	20000.00	2070.000	ug/L	-90			
Vanadium	500.0000	495.0000	ug/L	-1	20		
Zinc	1000.000	986.0000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038122

Run Name :
Filename : tr211458

Injected : 25-JUL-2003 17:08
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	532200.0	ug/L	6		
Antimony	500.0000	520.0000	ug/L	4	20	
Arsenic	500.0000	545.0000	ug/L	9	20	
Barium	500.0000	522.0000	ug/L	4	20	
Beryllium	500.0000	496.0000	ug/L	-1	20	
Cadmium	1000.000	974.0000	ug/L	-3	20	
Calcium	500000.0	484200.0	ug/L	-3		
Chromium	500.0000	482.0000	ug/L	-4	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	559.0000	ug/L	12	20	
Iron	200000.0	186800.0	ug/L	-7		
Lead	1000.000	902.0000	ug/L	-10	20	
Magnesium	500000.0	527100.0	ug/L	5		
Manganese	500.0000	492.0000	ug/L	-2	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	1040.000	ug/L	4	20	
Selenium	500.0000	541.0000	ug/L	8	20	
Silver	1000.000	1060.000	ug/L	6	20	
Thallium	500.0000	468.0000	ug/L	-6	20	
Titanium	20000.00	2260.000	ug/L	-89		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	985.0000	ug/L	-2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038156

Run Name :
Filename : tr211492

Injected : 25-JUL-2003 19:33
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	-1325.00	ug/L	-100			
Antimony	500.0000	572.0000	ug/L	14	20		
Arsenic	500.0000	-895.000	ug/L	-279	20	#	***
Barium	500.0000	-7.43000	ug/L	-101	20	#	***
Beryllium	500.0000	2.540000	ug/L	-99	20	#	***
Cadmium	1000.000	-16.6000	ug/L	-102	20	#	***
Calcium	500000.0	174.1000	ug/L	-100			
Chromium	500.0000	-1.75000	ug/L	-100	20	#	***
Cobalt	500.0000	0.194000	ug/L	-100	20	#	***
Copper	500.0000	-2.43000	ug/L	-100	20	#	***
Iron	200000.0	26.92000	ug/L	-100			
Lead	1000.000	-118.000	ug/L	-112	20	#	***
Magnesium	500000.0	0.267700	ug/L	-100			
Manganese	500.0000	17.00000	ug/L	-97	20	#	***
Molybdenum	500.0000	-387.000	ug/L	-177	20	#	***
Nickel	1000.000	-0.45800	ug/L	-100	20	#	***
Selenium	500.0000	-1.77000	ug/L	-100	20	#	***
Silver	1000.000	48.60000	ug/L	-95	20	#	***
Thallium	500.0000	1390.000	ug/L	178	20	#	***
Titanium	20000.00	441.0000	ug/L	-98			
Vanadium	500.0000	-0.44200	ug/L	-100	20	#	***
Zinc	1000.000	2900.000	ug/L	190	20	#	***

#=ICAL check standard failure
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SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 25-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73297038

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr211336	CS				25-JUL-2003	06:38	1.0				1		
002	tr211337	ICV				25-JUL-2003	06:48	1.0				2		
003	tr211338	ICB				25-JUL-2003	06:53	1.0						
004	tr211339	CRI				25-JUL-2003	07:37	1.0				3		
005	tr211340	ICSAB				25-JUL-2003	07:45	1.0				4		4:AL=544000
006	tr211341	BLANK	QC220054	83120	Soil	25-JUL-2003	07:51	1.0						
007	tr211342	BS	QC220055	83120	Soil	25-JUL-2003	07:55	1.0						
008	tr211343	BSD	QC220056	83120	Soil	25-JUL-2003	07:59	1.0						
009	tr211344	MSS	166494-015	83120	Soil	25-JUL-2003	08:04	1.0						1:FE=125200
010	tr211345	SER	QC220130	83120	Soil	25-JUL-2003	08:12	5.0						
011	tr211346	MSS	166494-015	83120	Soil	25-JUL-2003	08:17	5.0						
012	tr211347	SER	QC220130	83120	Soil	25-JUL-2003	08:21	25.0						
013	tr211348	CCV				25-JUL-2003	08:26	1.0				5		
014	tr211349	CCB				25-JUL-2003	08:33	1.0						
015	tr211350	MS	QC220057	83120	Soil	25-JUL-2003	08:37	1.0						1:FE=157300
016	tr211351	MSD	QC220058	83120	Soil	25-JUL-2003	08:41	1.0						1:FE=139400
017	tr211352	PDS	QC220155	83120	Soil	25-JUL-2003	08:45	1.0				6		1:FE=140700
018	tr211353	SAMPLE	166494-001	83120	Soil	25-JUL-2003	08:51	1.0						2:FE=245000
019	tr211354	SAMPLE	166494-002	83120	Soil	25-JUL-2003	08:54	1.0						3:FE=272600
020	tr211355	SAMPLE	166494-004	83120	Soil	25-JUL-2003	08:58	1.0						1:FE=159800
021	tr211356	SAMPLE	166494-005	83120	Soil	25-JUL-2003	09:02	1.0						2:FE=152000
022	tr211357	SAMPLE	166494-006	83120	Soil	25-JUL-2003	09:06	1.0						2:FE=192000
023	tr211358	SAMPLE	166494-007	83120	Soil	25-JUL-2003	09:10	1.0						1:FE=164900
024	tr211359	SAMPLE	166494-008	83120	Soil	25-JUL-2003	09:14	1.0						1:FE=158500
025	tr211360	CCV				25-JUL-2003	09:26	1.0				8		
026	tr211361	CCB				25-JUL-2003	09:35	1.0						
027	tr211362	SAMPLE	166494-001	83120	Soil	25-JUL-2003	09:39	1.0						2:FE=234700
028	tr211363	SAMPLE	166494-007	83120	Soil	25-JUL-2003	09:44	1.0						1:FE=160500
029	tr211364	SAMPLE	166494-009	83120	Soil	25-JUL-2003	09:48	1.0						1:FE=149500
030	tr211365	SAMPLE	166494-010	83120	Soil	25-JUL-2003	09:52	1.0						2:FE=266600
031	tr211366	SAMPLE	166494-011	83120	Soil	25-JUL-2003	09:56	1.0						3:FE=449900
032	tr211367	SAMPLE	166494-012	83120	Soil	25-JUL-2003	10:00	1.0						1:FE=130900

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: MW Date: 7/21/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 25-JUL-2003

Sequence: 73297038

Instrument: MET07

TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
033	tr2111368	SAMPLE	166494-013	83120	Soil	25-JUL-2003 10:04	1.0	48.30918						1:FE=127700
034	tr2111369	SAMPLE	166494-014	83120	Soil	25-JUL-2003 10:07	1.0	47.16981						1:FE=136300
035	tr2111370	SAMPLE	166494-016	83120	Soil	25-JUL-2003 10:11	1.0	48.07692						1:FE=131000
036	tr2111371	SAMPLE	166494-017	83120	Soil	25-JUL-2003 10:15	1.0	50.0						1:FE=121900
037	tr2111372	CCV				25-JUL-2003 10:25	1.0	1.0				5		
038	tr2111373	CCB				25-JUL-2003 10:29	1.0	1.0						1:CU=88000.0
039	tr2111374	SAMPLE	166488-001	83120	Miscel	25-JUL-2003 10:33	50.0	48.07692	1					
040	tr2111375	SAMPLE	166488-001	83120	Miscel	25-JUL-2003 10:37	500.0	48.07692						
041	tr2111376	SAMPLE	166494-013	83120	Soil	25-JUL-2003 10:41	1.0	48.30918						1:FE=127100
042	tr2111377	SAMPLE	166494-018	83120	Soil	25-JUL-2003 10:45	1.0	48.54369						1:FE=135400
043	tr2111378	SAMPLE	166494-019	83120	Soil	25-JUL-2003 10:49	1.0	49.01961						1:FE=146700
044	tr2111379	SAMPLE	166494-020	83120	Soil	25-JUL-2003 10:53	1.0	48.07692						1:FE=141300
045	tr2111380	BLANK	QC220088	83128	Water	25-JUL-2003 11:00	1.0	1.0						
046	tr2111381	BS	QC220089	83128	Water	25-JUL-2003 11:04	1.0	1.0						
047	tr2111382	BSD	QC220090	83128	Water	25-JUL-2003 11:08	1.0	1.0						
048	tr2111383	CCV				25-JUL-2003 11:20	1.0	1.0				8		
049	tr2111384	CCB				25-JUL-2003 11:25	1.0	1.0						2:MG=382800
050	tr2111385	MSS	166471-001	83128	Water	25-JUL-2003 11:38	1.0	1.0	2					
051	tr2111386	SER	QC220093	83128	Water	25-JUL-2003 11:41	5.0	1.0						
052	tr2111387	MS	QC220091	83128	Water	25-JUL-2003 11:45	1.0	1.0						2:MG=386800
053	tr2111388	MSD	QC220092	83128	Water	25-JUL-2003 11:49	1.0	1.0						2:MG=384000
054	tr2111389	SAMPLE	166471-002	83128	Water	25-JUL-2003 11:52	1.0	1.0	2					
055	tr2111390	SAMPLE	166471-003	83128	Water	25-JUL-2003 11:56	1.0	1.0						
056	tr2111391	SAMPLE	166471-002	83128	Water	25-JUL-2003 11:59	1.0	1.0						
057	tr2111392	SAMPLE	166471-003	83128	Water	25-JUL-2003 12:03	1.0	1.0						
058	tr2111393	SAMPLE	166473-003	83128	Water	25-JUL-2003 12:06	1.0	1.0						
059	tr2111394	SAMPLE	166460-016	83128	Water	25-JUL-2003 12:10	1.0	1.0						
060	tr2111395	CCV				25-JUL-2003 12:32	1.0	1.0				9		
061	tr2111396	CCB				25-JUL-2003 12:46	1.0	1.0						
062	tr2111397	SAMPLE	166494-003	83128	Water	25-JUL-2003 12:51	1.0	1.0						
063	tr2111398	BLANK	QC219894	83069	Miscel	25-JUL-2003 12:58	1.0	50.0	1					
064	tr2111399	BS	QC219895	83069	Miscel	25-JUL-2003 13:02	1.0	50.0						

Stdts used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mervin Date: 7/30/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr2111400	BSD	QC219896	83069	Miscel	25-JUL-2003	13:06	1.0	50.0					
066	tr2111401	MSS	166334-001	83069	Miscel	25-JUL-2003	13:10	10.0	49.01961	4				1:CA=414500
067	tr2111402	MS	QC219897	83069	Miscel	25-JUL-2003	13:13	10.0	43.47826		1			1:CA=438700
068	tr2111403	MSD	QC219898	83069	Miscel	25-JUL-2003	13:17	10.0	44.84305		1			1:CA=438100
069	tr2111404	MSS	166334-001	83069	Miscel	25-JUL-2003	13:21	10.0	49.01961	1				1:CA=412500
070	tr2111405	MS	QC219897	83069	Miscel	25-JUL-2003	13:24	10.0	43.47826		2			1:CA=433300
071	tr2111406	MSD	QC219898	83069	Miscel	25-JUL-2003	13:28	10.0	44.84305		2			1:CA=430700
072	tr2111407	CCV				25-JUL-2003	13:34	1.0	1.0			5		
073	tr2111408	CCB				25-JUL-2003	13:37	1.0	1.0					
074	tr2111409	SAMPLE	166334-002	83069	Miscel	25-JUL-2003	13:43	10.0	42.55319					1:CA=524300
075	tr2111410	SAMPLE	166334-003	83069	Miscel	25-JUL-2003	13:47	10.0	49.01961					1:CA=325400
076	tr2111411	SAMPLE	166334-004	83069	Miscel	25-JUL-2003	13:50	10.0	44.64286					1:CA=350300
077	tr2111412	SAMPLE	166334-005	83069	Miscel	25-JUL-2003	13:54	10.0	40.16064	1				1:CA=451300
078	tr2111413	SAMPLE	166334-006	83069	Miscel	25-JUL-2003	13:57	10.0	49.50495					1:CA=469100
079	tr2111414	SAMPLE	166334-007	83069	Miscel	25-JUL-2003	14:01	10.0	38.91051					1:CA=525700
080	tr2111415	SAMPLE	166334-008	83069	Miscel	25-JUL-2003	14:04	10.0	37.87879	1				1:CA=585600
081	tr2111416	SAMPLE	166334-009	83069	Miscel	25-JUL-2003	14:08	10.0	46.29630	1				1:CA=416400
082	tr2111417	SAMPLE	166334-010	83069	Miscel	25-JUL-2003	14:11	10.0	41.32231	6				1:CA=384700
083	tr2111418	SAMPLE	166467-005	83107	Soil	25-JUL-2003	14:15	10.0	35.21127	1				
084	tr2111419	CCV				25-JUL-2003	14:18	1.0	1.0			8		
085	tr2111420	CCB				25-JUL-2003	14:25	1.0	1.0					
086	tr2111421	BLANK	QC219894	83069	Miscel	25-JUL-2003	14:32	1.0	50.0					1:CA=526800
087	tr2111422	SAMPLE	166334-002	83069	Miscel	25-JUL-2003	14:39	10.0	42.55319	2				1:CA=324300
088	tr2111423	SAMPLE	166334-003	83069	Miscel	25-JUL-2003	14:42	10.0	49.01961					1:CA=351900
089	tr2111424	SAMPLE	166334-004	83069	Miscel	25-JUL-2003	14:45	10.0	44.64286	1				1:CA=454100
090	tr2111425	SAMPLE	166334-005	83069	Miscel	25-JUL-2003	14:49	10.0	40.16064	1				1:CA=474200
091	tr2111426	SAMPLE	166334-006	83069	Miscel	25-JUL-2003	14:52	10.0	49.50495	1				1:CA=524900
092	tr2111427	SAMPLE	166334-007	83069	Miscel	25-JUL-2003	14:56	10.0	38.91051					1:CA=580300
093	tr2111428	SAMPLE	166334-008	83069	Miscel	25-JUL-2003	14:59	10.0	37.87879	2				1:CA=421000
094	tr2111429	SAMPLE	166334-009	83069	Miscel	25-JUL-2003	15:03	10.0	46.29630	1				1:CA=482600
095	tr2111430	SAMPLE	166334-010	83069	Miscel	25-JUL-2003	15:06	10.0	41.32231	1				
096	tr2111431	CCV				25-JUL-2003	15:11	1.0	1.0			5		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: NEW Date: 7/20/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 25-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73297038

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr2111432	CCB				25-JUL-2003	15:15	1.0						
098	tr2111433	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:19	10.0	47.84689					1:CA=450300
099	tr2111434	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:22	10.0	43.29004	1				1:CA=511300
100	tr2111435	SAMPLE	166334-013	83069	Miscel	25-JUL-2003	15:26	10.0	40.16064					1:CA=504200
101	tr2111436	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:29	10.0	44.64286					1:CA=455200
102	tr2111437	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:33	10.0	47.84689	2				1:CA=453900
103	tr2111438	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:36	10.0	43.29004					1:CA=508300
104	tr2111439	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:41	10.0	44.64286					1:CA=445200
105	tr2111440	SAMPLE	166405-008	83069	Soil	25-JUL-2003	15:44	1.0	49.26108	2				3:FE=295200
106	tr2111441	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:48	1.0	1.0	1				1:CA=212800
107	tr2111442	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:51	1.0	1.0	1				1:CA=214300
108	tr2111443	CCV				25-JUL-2003	15:55	1.0	1.0			8		
109	tr2111444	CCB				25-JUL-2003	16:01	1.0	1.0					
110	tr2111445	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:05	1.0	1.0	3				2:MG=766800
111	tr2111446	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:08	1.0	1.0	2				2:MG=760000
112	tr2111447	BLANK	QC220150	83149	Air	25-JUL-2003	16:18	1.0	600.2401					
113	tr2111448	BS	QC220151	83149	Air	25-JUL-2003	16:24	1.0	600.2401					
114	tr2111449	BSD	QC220152	83149	Air	25-JUL-2003	16:28	1.0	600.2401					
115	tr2111450	MSS	166371-001	83149	Air	25-JUL-2003	16:31	1.0	600.2401	2				
116	tr2111451	MSS	166371-001	83149	Air	25-JUL-2003	16:39	1.0	600.2401	1				
117	tr2111452	MS	QC220153	83149	Air	25-JUL-2003	16:43	1.0	600.2401					
118	tr2111453	MSD	QC220154	83149	Air	25-JUL-2003	16:46	1.0	600.2401					
119	tr2111454	SAMPLE	166371-002	83149	Air	25-JUL-2003	16:50	1.0	600.2401					
120	tr2111456	CCV				25-JUL-2003	16:54	1.0	1.0			5		
121	tr2111457	CCB				25-JUL-2003	17:04	1.0	1.0					
122	tr2111458	ICSAB				25-JUL-2003	17:08	1.0	1.0			4		4:AL=532200
123	tr2111459	SAMPLE	166371-003	83149	Air	25-JUL-2003	17:26	1.0	600.2401					
124	tr2111460	SAMPLE	166371-004	83149	Air	25-JUL-2003	17:30	1.0	600.2401					
125	tr2111461	SAMPLE	166371-005	83149	Air	25-JUL-2003	17:33	1.0	600.2401					
126	tr2111462	SAMPLE	166371-006	83149	Air	25-JUL-2003	17:36	1.0	600.2401	2				1:ZN=4350.00
127	tr2111463	SAMPLE	166371-007	83149	Air	25-JUL-2003	17:40	1.0	600.2401	1				
128	tr2111464	SAMPLE	166371-008	83149	Air	25-JUL-2003	17:43	1.0	600.2401	1				

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Maiw Date: 7/25/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 25-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73297038

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's	Used	>LR
129	tr211465	SAMPLE	166371-009	83149	Air	25-JUL-2003	17:47	1.0	600.2401	1				1:ZN=3460.00
130	tr211466	SAMPLE	166371-010	83149	Air	25-JUL-2003	17:50	1.0	600.2401					
131	tr211467	SAMPLE	166371-011	83149	Air	25-JUL-2003	17:54	1.0	600.2401					
132	tr211468	CCV				25-JUL-2003	17:59	1.0	1.0	1		8		
133	tr211469	X	rinse			25-JUL-2003	18:04	1.0	1.0					
134	tr211470	CCB				25-JUL-2003	18:08	1.0	1.0					
135	tr211471	SAMPLE	166371-012	83149	Air	25-JUL-2003	18:11	1.0	600.2401	3				1:ZN=3580.00
136	tr211472	SAMPLE	166371-013	83149	Air	25-JUL-2003	18:15	1.0	600.2401	2				
137	tr211473	SAMPLE	166371-014	83149	Air	25-JUL-2003	18:18	1.0	600.2401	1				
138	tr211474	SAMPLE	166371-015	83149	Air	25-JUL-2003	18:22	1.0	600.2401	3				1:ZN=5350.00
139	tr211475	SAMPLE	166371-016	83149	Air	25-JUL-2003	18:25	1.0	600.2401	3				
140	tr211476	SAMPLE	166371-017	83149	Air	25-JUL-2003	18:29	1.0	600.2401	1				
141	tr211477	SAMPLE	166371-018	83149	Air	25-JUL-2003	18:32	1.0	600.2401	3				1:ZN=4800.00
142	tr211478	SAMPLE	166371-019	83149	Air	25-JUL-2003	18:36	1.0	600.2401	2				
143	tr211479	CCV				25-JUL-2003	18:41	1.0	1.0	1		8		
144	tr211480	X	rinse			25-JUL-2003	18:46	1.0	1.0					
145	tr211481	CCB				25-JUL-2003	18:50	1.0	1.0	1				
146	tr211482	BLANK	QC220238	83170	Water	25-JUL-2003	18:53	1.0	1.0	4				
147	tr211483	BS	QC220239	83170	Water	25-JUL-2003	18:57	1.0	1.0	4				
148	tr211484	BSD	QC220240	83170	Water	25-JUL-2003	19:00	1.0	1.0	4				
149	tr211485	MSS	166521-001	83170	Water	25-JUL-2003	19:04	1.0	1.0	3				
150	tr211486	MS	QC220241	83170	Water	25-JUL-2003	19:07	1.0	1.0	1	1			
151	tr211487	MSD	QC220242	83170	Water	25-JUL-2003	19:11	1.0	1.0	1	1			
152	tr211488	SAMPLE	166521-002	83170	Water	25-JUL-2003	19:15	1.0	1.0	1				
153	tr211489	CCV				25-JUL-2003	19:19	1.0	1.0	3		8		
154	tr211490	X	rinse			25-JUL-2003	19:25	1.0	1.0					
155	tr211491	CCB				25-JUL-2003	19:29	1.0	1.0	1				
156	tr211492	ICSAB				25-JUL-2003	19:33	1.0	1.0	16		4		

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: MSW Date: 7/28/03

Curtis & Tompkins Laboratories

Sample Preparation Summary

24-JUL-2003 12:19

Batch Number : 83128
 Date Extracted : 24-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bq/roup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166460-016		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166461-001		Conocophillips Company	Water	50	ml	50	1	1					CA, FE, HARDNESS(more)	
166461-002		Conocophillips Company	Water	50	ml	50	1	1					CA, FE, HARDNESS(more)	
166464-008		Polymatrix	Water	50	ml	50	1	1					Ag	
166464-014		Polymatrix	Water	50	ml	50	1	1					Ag, CD, CU	
166471-001		Tetra Tech EMI	Water	50	ml	50	1	1					TAL/ICP	mss
166471-002		Tetra Tech EMI	Water	50	ml	50	1	1					TAL/ICP	
166473-003		Tetra Tech EMI	Water	50	ml	50	1	1					TAL/ICP	
166477-001		Treadwell & Rollo	Water	50	ml	50	1	1					ZN	
166477-002		LFR Levine Fricke	Water	50	ml	50	1	1					CR	
166477-003		LFR Levine Fricke	Water	50	ml	50	1	1					CR	
166478-002		LFR Levine Fricke	Water	50	ml	50	1	1					CD, PB	
166478-003		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166478-004		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166478-005		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166478-006		Wil Chee Planning	Water	50	ml	50	1	1					RCRA/ICP	
166494-003		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
QC220088	BLANK		Water	50	ml	50	1	1					ICAP	
QC220089	BS		Water	50	ml	50	1	1					ICAP	
QC220090	BSD		Water	50	ml	50	1	1					ICAP	
QC220091	MS	of 166471-001	Water	50	ml	50	1	1					ICAP	
QC220092	MSD	of 166471-001	Water	50	ml	50	1	1					ICAP	
QC220093	SER	of 166471-001	Water	50	ml	50	1	1					ICAP	
QC220094	SPIKE	of 166464-008	Water	50	ml	50	1	1					ICAP	

Prep Chemist: Patricia VergaraReviewed By: MWDate: 7/24/03Relinquished By: Patricia VergaraReceived By: MWDate: 7/24/03

07/24/03		Batch # 83128		ICAP M 3010	
SAMPLE ID		Init vol (ml)	Final vol (ml)	FILTERED YES/NO	COMMENTS
A 166460-016		50.0	50.0	NO	SPIKES ✓ 0395177 ✓ 0395178 (0.5 mL) ↓
↓ 166461-001					
↓ 002					
A 166464-008 comp 1-7					REAGENTS HNO3 JT BAKER # Y05050 1:1 HCL JT BAKER # Y12028/072303
A ↓ 014					
J 166471-001 (HSS)					
D ↓ 002					
↓ 003					
A 166473-003					
↓ 166477-001					
↓ 002					
↓ 003					
166478-002					
↓ 003					
↓ 004					
↓ 005					
D 166478-006					
A 166494-003					
MB QC 220088					
✓ BS 220099					
✓ BSD 220090					
✓ MS-6471-001					
✓ MSD-6471-001					
✓ SPIKE-6464-008					

Continued on Page 14

Read and Understood By

mu

7/25/03

Patricia Vergara

Signed

07/24/03

Date

54

Signed

Date

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B / 200.7 ✓ 6/25/03
 Curtis & Tompkins Laboratories

Instrument: MET07	Study # : 17730
Matrix : Water	Batchnum : 82300
Partition : All	Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 20.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	MGBSB16[1]	Batch#:	83086
Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Analyte	Result	RL	Diln Fac
Aluminum	8,200	24	5.000
Antimony	ND	2.9	1.000
Arsenic	2.9	0.24	1.000
Barium	89	0.49	1.000
Beryllium	0.23	0.097	1.000
Cadmium	1.7	0.24	1.000
Chromium	55	0.49	1.000
Cobalt	12	0.97	1.000
Copper	11	0.49	1.000
Iron	15,000	24	5.000
Lead	8.5	0.15	1.000
Magnesium	2,900	24	1.000
Manganese	340	0.49	1.000
Nickel	59	0.97	1.000
Selenium	1.0	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	40	0.49	1.000
Zinc	35	0.97	1.000

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	MGBSB06[1]	Batch#:	83086
Lab ID:	166460-017	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Analyte	Result	RL	Diln Fac
Aluminum	6,100	4.6	1.000
Antimony	ND	2.8	1.000
Arsenic	3.0	0.23	1.000
Barium	35	0.46	1.000
Beryllium	0.11	0.092	1.000
Cadmium	1.2	0.23	1.000
Chromium	50	0.46	1.000
Cobalt	7.6	0.92	1.000
Copper	6.6	0.46	1.000
Iron	9,900	23	5.000
Lead	15	0.14	1.000
Magnesium	3,800	23	1.000
Manganese	190	0.46	1.000
Nickel	54	0.92	1.000
Selenium	0.34	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	28	0.46	1.000
Zinc	34	0.92	1.000

Barium			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled
MGBSB16 [2]	SAMPLE	166460-002	71	0.48	83086	07/21/03
MGBSB18 [1]	SAMPLE	166460-003	58	0.50	83086	07/21/03
MGBSB18 [2]	SAMPLE	166460-004	31	0.44	83086	07/21/03
MGBSB19 [0.3]	SAMPLE	166460-005	57	0.50	83086	07/21/03
MGBSB17 [1]	SAMPLE	166460-006	95	0.47	83086	07/21/03
MGBSB17 [2]	SAMPLE	166460-007	100	0.48	83086	07/21/03
MGBSB15 [1]	SAMPLE	166460-008	60	0.47	83086	07/21/03
MGBSB14 [0.5]	SAMPLE	166460-009	110	0.47	83086	07/21/03
MGBSB14 [1]	SAMPLE	166460-010	79	0.49	83086	07/21/03
MGBSB13 [1]	SAMPLE	166460-011	83	0.45	83086	07/21/03
MGBSB11 [1]	SAMPLE	166460-012	56	0.46	83086	07/21/03
MGBSB11 [2]	SAMPLE	166460-013	91	0.41	83086	07/21/03
MGBSB12 [1]	SAMPLE	166460-014	41	0.44	83086	07/21/03
MGBSB12 [2]	SAMPLE	166460-015	26	0.44	83086	07/21/03
MGBSB06 [2]	SAMPLE	166460-018	52	0.43	83086	07/22/03
MGBSB05 [1]	SAMPLE	166460-019	49	0.45	83086	07/22/03
MGBSB05 [2]	SAMPLE	166460-020	58	0.46	83086	07/22/03
MGBSB04 [1]	SAMPLE	166460-021	94	0.46	83086	07/22/03
DUP072203A	SAMPLE	166460-022	150	0.49	83107	07/22/03
MGBSB04 [2]	SAMPLE	166460-023	190	0.50	83107	07/22/03
MGBSB03 [1]	SAMPLE	166460-024	75	0.48	83107	07/22/03
MGBSB03 [2]	SAMPLE	166460-025	82	0.49	83107	07/22/03
	BLANK	QC219949	ND	0.50	83086	
	BLANK	QC220017	ND	0.50	83107	

**Copper**

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled
MGBSB16 [2]	SAMPLE	166460-002	11	0.48	83086	07/21/03
MGBSB18 [1]	SAMPLE	166460-003	9.1	0.50	83086	07/21/03
MGBSB18 [2]	SAMPLE	166460-004	4.2	0.44	83086	07/21/03
MGBSB19 [0.3]	SAMPLE	166460-005	21	0.50	83086	07/21/03
MGBSB17 [1]	SAMPLE	166460-006	12	0.47	83086	07/21/03
MGBSB17 [2]	SAMPLE	166460-007	11	0.48	83086	07/21/03
MGBSB15 [1]	SAMPLE	166460-008	9.2	0.47	83086	07/21/03
MGBSB14 [0.5]	SAMPLE	166460-009	17	0.47	83086	07/21/03
MGBSB14 [1]	SAMPLE	166460-010	14	0.49	83086	07/21/03
MGBSB13 [1]	SAMPLE	166460-011	13	0.45	83086	07/21/03
MGBSB11 [1]	SAMPLE	166460-012	9.3	0.46	83086	07/21/03
MGBSB11 [2]	SAMPLE	166460-013	13	0.41	83086	07/21/03
MGBSB12 [1]	SAMPLE	166460-014	8.4	0.44	83086	07/21/03
MGBSB12 [2]	SAMPLE	166460-015	4.4	0.44	83086	07/21/03
MGBSB06 [2]	SAMPLE	166460-018	7.7	0.43	83086	07/22/03
MGBSB05 [1]	SAMPLE	166460-019	10	0.45	83086	07/22/03
MGBSB05 [2]	SAMPLE	166460-020	24	0.46	83086	07/22/03
MGBSB04 [1]	SAMPLE	166460-021	15	0.46	83086	07/22/03
DUP072203A	SAMPLE	166460-022	21	0.49	83107	07/22/03
MGBSB04 [2]	SAMPLE	166460-023	25	0.50	83107	07/22/03
MGBSB03 [1]	SAMPLE	166460-024	12	0.48	83107	07/22/03
MGBSB03 [2]	SAMPLE	166460-025	29	0.49	83107	07/22/03
	BLANK	QC219949	ND	0.50	83086	
	BLANK	QC220017	ND	0.50	83107	

ND= Not Detected

RL= Reporting Limit

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Lead

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled
MGBSB16 [2]	SAMPLE	166460-002	1.4	0.14	83086	07/21/03
MGBSB18 [1]	SAMPLE	166460-003	6.3	0.15	83086	07/21/03
MGBSB18 [2]	SAMPLE	166460-004	0.29	0.13	83086	07/21/03
MGBSB19 [0.3]	SAMPLE	166460-005	120	0.15	83086	07/21/03
MGBSB17 [1]	SAMPLE	166460-006	30	0.14	83086	07/21/03
MGBSB17 [2]	SAMPLE	166460-007	5.3	0.14	83086	07/21/03
MGBSB15 [1]	SAMPLE	166460-008	11	0.14	83086	07/21/03
MGBSB14 [0.5]	SAMPLE	166460-009	9.9	0.14	83086	07/21/03
MGBSB14 [1]	SAMPLE	166460-010	13	0.15	83086	07/21/03
MGBSB13 [1]	SAMPLE	166460-011	15	0.13	83086	07/21/03
MGBSB11 [1]	SAMPLE	166460-012	19	0.14	83086	07/21/03
MGBSB11 [2]	SAMPLE	166460-013	3.1	0.12	83086	07/21/03
MGBSB12 [1]	SAMPLE	166460-014	32	0.13	83086	07/21/03
MGBSB12 [2]	SAMPLE	166460-015	10	0.13	83086	07/21/03
MGBSB06 [2]	SAMPLE	166460-018	10	0.13	83086	07/22/03
MGBSB05 [1]	SAMPLE	166460-019	29	0.13	83086	07/22/03
MGBSB05 [2]	SAMPLE	166460-020	200	0.14	83086	07/22/03
MGBSB04 [1]	SAMPLE	166460-021	39	0.14	83086	07/22/03
DUP072203A	SAMPLE	166460-022	34	0.15	83107	07/22/03
MGBSB04 [2]	SAMPLE	166460-023	28	0.15	83107	07/22/03
MGBSB03 [1]	SAMPLE	166460-024	15	0.14	83107	07/22/03
MGBSB03 [2]	SAMPLE	166460-025	0.59	0.15	83107	07/22/03
	BLANK	QC219949	ND	0.15	83086	
	BLANK	QC220017	ND	0.15	83107	

ND= Not Detected
RL= Reporting Limit
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Antimony

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled
MGBSB16 [2]	SAMPLE	166460-002	ND	2.9	83086	07/21/03
MGBSB18 [1]	SAMPLE	166460-003	ND	3.0	83086	07/21/03
MGBSB18 [2]	SAMPLE	166460-004	ND	2.6	83086	07/21/03
MGBSB19 [0.3]	SAMPLE	166460-005	ND	3.0	83086	07/21/03
MGBSB17 [1]	SAMPLE	166460-006	ND	2.8	83086	07/21/03
MGBSB17 [2]	SAMPLE	166460-007	ND	2.9	83086	07/21/03
MGBSB15 [1]	SAMPLE	166460-008	ND	2.8	83086	07/21/03
MGBSB14 [0.5]	SAMPLE	166460-009	ND	2.8	83086	07/21/03
MGBSB14 [1]	SAMPLE	166460-010	ND	2.9	83086	07/21/03
MGBSB13 [1]	SAMPLE	166460-011	ND	2.7	83086	07/21/03
MGBSB11 [1]	SAMPLE	166460-012	ND	2.8	83086	07/21/03
MGBSB11 [2]	SAMPLE	166460-013	ND	2.4	83086	07/21/03
MGBSB12 [1]	SAMPLE	166460-014	ND	2.6	83086	07/21/03
MGBSB12 [2]	SAMPLE	166460-015	ND	2.6	83086	07/21/03
MGBSB06 [2]	SAMPLE	166460-018	ND	2.6	83086	07/22/03
MGBSB05 [1]	SAMPLE	166460-019	ND	2.7	83086	07/22/03
MGBSB05 [2]	SAMPLE	166460-020	ND	2.7	83086	07/22/03
MGBSB04 [1]	SAMPLE	166460-021	ND	2.8	83086	07/22/03
DUP072203A	SAMPLE	166460-022	ND	3.0	83107	07/22/03
MGBSB04 [2]	SAMPLE	166460-023	ND	3.0	83107	07/22/03
MGBSB03 [1]	SAMPLE	166460-024	ND	2.9	83107	07/22/03
MGBSB03 [2]	SAMPLE	166460-025	ND	2.9	83107	07/22/03
	BLANK	QC219949	ND	3.0	83086	
	BLANK	QC220017	ND	3.0	83107	

ND= Not Detected
 RL= Reporting Limit
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Zinc			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled
MGBSB16 [2]	SAMPLE	166460-002	27	0.97	83086	07/21/03
MGBSB18 [1]	SAMPLE	166460-003	25	0.99	83086	07/21/03
MGBSB18 [2]	SAMPLE	166460-004	19	0.88	83086	07/21/03
MGBSB19 [0.3]	SAMPLE	166460-005	76	1.0	83086	07/21/03
MGBSB17 [1]	SAMPLE	166460-006	41	0.93	83086	07/21/03
MGBSB17 [2]	SAMPLE	166460-007	36	0.96	83086	07/21/03
MGBSB15 [1]	SAMPLE	166460-008	33	0.93	83086	07/21/03
MGBSB14 [0.5]	SAMPLE	166460-009	37	0.94	83086	07/21/03
MGBSB14 [1]	SAMPLE	166460-010	28	0.97	83086	07/21/03
MGBSB13 [1]	SAMPLE	166460-011	30	0.90	83086	07/21/03
MGBSB11 [1]	SAMPLE	166460-012	28	0.93	83086	07/21/03
MGBSB11 [2]	SAMPLE	166460-013	30	0.81	83086	07/21/03
MGBSB12 [1]	SAMPLE	166460-014	29	0.88	83086	07/21/03
MGBSB12 [2]	SAMPLE	166460-015	23	0.88	83086	07/21/03
MGBSB06 [2]	SAMPLE	166460-018	30	0.87	83086	07/22/03
MGBSB05 [1]	SAMPLE	166460-019	43	0.90	83086	07/22/03
MGBSB05 [2]	SAMPLE	166460-020	33	0.91	83086	07/22/03
MGBSB04 [1]	SAMPLE	166460-021	63	0.92	83086	07/22/03
DUP072203A	SAMPLE	166460-022	64	0.99	83107	07/22/03
MGBSB04 [2]	SAMPLE	166460-023	57	1.0	83107	07/22/03
MGBSB03 [1]	SAMPLE	166460-024	53	0.97	83107	07/22/03
MGBSB03 [2]	SAMPLE	166460-025	39	0.97	83107	07/22/03
	BLANK	QC219949	ND	1.0	83086	
	BLANK	QC220017	ND	1.0	83107	

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC219949	Batch#:	83086
Matrix:	Soil	Prepared:	07/23/03
Units:	mg/Kg	Analyzed:	07/24/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220017	Batch#:	83107
Matrix:	Soil	Prepared:	07/23/03
Units:	mg/Kg	Analyzed:	07/24/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03
Diln Fac:	1.000		

Type: BS Lab ID: QC219950

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	998.0	100	75-125
Antimony	100.0	114.5	115	75-125
Arsenic	50.00	50.00	100	75-125
Barium	100.0	99.00	99	75-125
Beryllium	2.500	2.610	104	75-125
Cadmium	10.00	9.850	99	75-125
Chromium	100.0	94.50	95	75-125
Cobalt	25.00	24.90	100	75-125
Copper	12.50	12.90	103	75-125
Iron	1,000	952.5	95	75-125
Lead	100.0	106.0	106	75-125
Magnesium	1,000	1,021	102	75-125
Manganese	25.00	24.50	98	75-125
Nickel	25.00	25.10	100	75-125
Selenium	50.00	47.70	95	75-125
Silver	10.00	9.950	100	75-125
Thallium	50.00	46.30	93	75-125
Vanadium	25.00	25.30	101	75-125
Zinc	25.00	23.95	96	75-125

Type: BSD Lab ID: QC219951

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	1,003	100	75-125	0	30
Antimony	100.0	114.5	115	75-125	0	30
Arsenic	50.00	49.55	99	75-125	1	30
Barium	100.0	98.50	99	75-125	1	30
Beryllium	2.500	2.615	105	75-125	0	30
Cadmium	10.00	9.750	98	75-125	1	30
Chromium	100.0	94.50	95	75-125	0	30
Cobalt	25.00	24.85	99	75-125	0	30
Copper	12.50	13.00	104	75-125	1	30
Iron	1,000	953.5	95	75-125	0	30
Lead	100.0	105.0	105	75-125	1	30
Magnesium	1,000	1,024	102	75-125	0	30
Manganese	25.00	24.50	98	75-125	0	30
Nickel	25.00	24.95	100	75-125	1	30
Selenium	50.00	47.15	94	75-125	1	30
Silver	10.00	10.00	100	75-125	1	30
Thallium	50.00	45.90	92	75-125	1	30
Vanadium	25.00	25.25	101	75-125	0	30
Zinc	25.00	24.00	96	75-125	0	30

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220018

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	116.0	116	75-125
Barium	100.0	96.50	97	75-125
Copper	12.50	12.35	99	75-125
Lead	100.0	96.00	96	75-125
Zinc	25.00	23.20	93	75-125

Type: BSD Lab ID: QC220019

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	106.5	107	75-125	9	30
Barium	100.0	89.00	89	75-125	8	30
Copper	12.50	11.35	91	75-125	8	30
Lead	100.0	88.00	88	75-125	9	30
Zinc	25.00	21.60	86	75-125	7	30

Barium			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC219950	100.0	99.00	99	75-125		
BSD	QC219951	100.0	98.50	99	75-125	1	30

Barium			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220018	100.0	96.50	97	75-125		
BSD	QC220019	100.0	89.00	89	75-125	8	30

Copper			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC219950	12.50	12.90	103	75-125		
BSD	QC219951	12.50	13.00	104	75-125	1	30

Copper			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220018	12.50	12.35	99	75-125		
BSD	QC220019	12.50	11.35	91	75-125	8	30

Lead			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC219950	100.0	106.0	106	75-125		
BSD	QC219951	100.0	105.0	105	75-125	1	30

Lead			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220018	100.0	96.00	96	75-125		
BSD	QC220019	100.0	88.00	88	75-125	9	30

Antimony			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC219950	100.0	114.5	115	75-125		
BSD	QC219951	100.0	114.5	115	75-125	0	30

Antimony			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220018	100.0	116.0	116	75-125		
BSD	QC220019	100.0	106.5	107	75-125	9	30

**Zinc**

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83086
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC219950	25.00	23.95	96	75-125		
BSD	QC219951	25.00	24.00	96	75-125	0	30

Zinc			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83107
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220018	25.00	23.20	93	75-125		
BSD	QC220019	25.00	21.60	86	75-125	7	30

Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	MGBSB16 [1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03
Diln Fac:	1.000		

Type: MS Lab ID: QC219952

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	8,233	892.9	11,810 >LR	400 NM	75-125
Antimony	0.9563	89.29	21.61	23 *	75-125
Arsenic	2.932	44.64	42.90	90	75-125
Barium	88.83	89.29	179.9	102	75-125
Beryllium	0.2272	2.232	2.429	99	75-125
Cadmium	1.699	8.929	9.821	91	75-125
Chromium	54.85	89.29	137.9	93	75-125
Cobalt	12.14	22.32	32.23	90	75-125
Copper	10.63	11.16	23.21	113	75-125
Iron	15,120	892.9	17,040 >LR	215 NM	75-125
Lead	8.544	89.29	96.43	98	75-125
Magnesium	2,939	892.9	4,022	121	75-125
Manganese	344.7	22.32	351.8	32 NM	75-125
Nickel	58.74	22.32	82.14	105	75-125
Selenium	1.010	44.64	39.69	87	75-125
Silver	<0.02600	8.929	8.393	94	75-125
Thallium	<0.1500	44.64	37.14	83	75-125
Vanadium	40.49	22.32	65.63	113	75-125
Zinc	35.39	22.32	56.70	95	75-125

Type: MSD Lab ID: QC219953

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	934.6	11,730 >LR	374 NM	75-125	NC	30
Antimony	93.46	23.50	24 *	75-125	4	30
Arsenic	46.73	45.14	90	75-125	1	30
Barium	93.46	183.2	101	75-125	1	30
Beryllium	2.336	2.551	99	75-125	1	30
Cadmium	9.346	10.28	92	75-125	1	30
Chromium	93.46	143.9	95	75-125	1	30
Cobalt	23.36	33.88	93	75-125	2	30
Copper	11.68	23.27	108	75-125	2	30
Iron	934.6	17,090 >LR	211 NM	75-125	NC	30
Lead	93.46	98.60	96	75-125	2	30
Magnesium	934.6	4,126	127 *	75-125	1	30
Manganese	23.36	369.2	105 NM	75-125	5	30
Nickel	23.36	83.64	107	75-125	1	30
Selenium	46.73	40.84	85	75-125	2	30
Silver	9.346	8.832	95	75-125	1	30
Thallium	46.73	38.74	83	75-125	0	30
Vanadium	23.36	67.29	115	75-125	1	30
Zinc	23.36	57.48	95	75-125	0	30

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

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Target Analyte List Metals

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03
Diln Fac:	1.000		

Type: MS Lab ID: QC220020

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.133	93.02	22.93	23 *	75-125
Barium	152.2	93.02	267.9	124	75-125
Copper	20.79	11.63	33.86	112	75-125
Lead	34.38	93.02	122.8	95	75-125
Zinc	64.04	23.26	87.91	103	75-125

Type: MSD Lab ID: QC220021

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	92.17	19.77	20 *	75-125	14	30
Barium	92.17	226.7	81	75-125	16	30
Copper	11.52	30.28	82	75-125	11	30
Lead	92.17	107.8	80	75-125	12	30
Zinc	23.04	80.65	72 *	75-125	8	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Barium

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	MGBSB16[1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC219952	88.83	89.29	179.9	102	75-125		
MSD	QC219953		93.46	183.2	101	75-125	1	30

Barium			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC220020	152.2	93.02	267.9	124	75-125		
MSD	QC220021		92.17	226.7	81	75-125	16	30

Copper			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	MGBSB16 [1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC219952	10.63	11.16	23.21	113	75-125		
MSD	QC219953		11.68	23.27	108	75-125	2	30

Copper			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC220020	20.79	11.63	33.86	112	75-125		
MSD	QC220021		11.52	30.28	82	75-125	11	30

Lead			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	MGBSB16 [1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC219952	8.544	89.29	96.43	98	75-125		
MSD	QC219953		93.46	98.60	96	75-125	2	30

Lead			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC220020	34.38	93.02	122.8	95	75-125		
MSD	QC220021		92.17	107.8	80	75-125	12	30

Antimony			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	MGBSB16 [1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC219952	0.9563	89.29	21.61	23 *	75-125		
MSD	QC219953		93.46	23.50	24 *	75-125	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC220020	1.133	93.02	22.93	23 *	75-125		
MSD	QC220021		92.17	19.77	20 *	75-125	14	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	MGBSB16 [1]	Batch#:	83086
MSS Lab ID:	166460-001	Sampled:	07/21/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC219952	35.39	22.32	56.70	95	75-125		
MSD	QC219953		23.36	57.48	95	75-125	0	30

Zinc

Lab #:	166460	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	DUP072203A	Batch#:	83107
MSS Lab ID:	166460-022	Sampled:	07/22/03
Matrix:	Soil	Received:	07/22/03
Units:	mg/Kg	Prepared:	07/23/03
Basis:	as received	Analyzed:	07/24/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC220020	64.04	23.26	87.91	103	75-125		
MSD	QC220021		23.04	80.65	72 *	75-125	8	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73295740009	Seqnum : 73295740010
Filename : tr211266	Filename : tr211267
IDF : 1.0	IDF : 5.0
PDF : 48.54369	PDF : 48.54369
Run type : MSS	Run type : SER
Samplenum: 166460-001	Samplenum: QC219954
Matrix : Soil	Matrix : Soil
Batchnum : 83086	Batchnum : 83086
Inj : 24-JUL-2003 10:17	Inj : 24-JUL-2003 10:21
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.91	ND	14.6	--	10		u
Arsenic	2.93	0.243	2.82	1.21	4	10		u
Barium	88.8	0.485	83.3	2.43	6	10		u
Beryllium	0.227	0.0971	ND	0.485	--	10		u
Cadmium	1.70	0.243	1.58	1.21	--	10		u
Calcium	2820	24.3	2760	121	2	10		u
Chromium	54.9	0.485	53.4	2.43	3	10		u
Cobalt	12.1	0.971	11.8	4.85	3	10		u
Copper	10.6	0.485	9.88	2.43	7	10		u
Iron	*** usable MSS data not found ***							
Lead	8.54	0.146	8.52	0.728	0	10		u
Magnesium	2940	24.3	2870	121	2	10		u
Manganese	345	0.485	333	2.43	4	10		u
Molybdenum	ND	0.971	ND	4.85	--	10		u
Nickel	58.7	0.971	57.5	4.85	2	10		u
Selenium	1.01	0.243	ND	1.21	--	10		u
Silver	ND	0.243	ND	1.21	--	10		u
Thallium	ND	0.243	ND	1.21	--	10		u
Vanadium	40.5	0.485	38.8	2.43	4	10		u
Zinc	35.4	0.971	35.7	4.85	1	10		u
Titanium	*** usable MSS data not found ***							

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73295740043	Seqnum : 73295740044
Filename : tr211300	Filename : tr211301
IDF : 1.0	IDF : 5.0
PDF : 49.26108	PDF : 49.26108
Run type : MSS	Run type : SER
Samplenum: 166460-022	Samplenum: QC220022
Matrix : Soil	Matrix : Soil
Batchnum : 83107	Batchnum : 83107
Inj : 24-JUL-2003 13:21	Inj : 24-JUL-2003 13:25
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.96	ND	14.8	--	10		u
Arsenic	3.22	0.246	4.33	1.23	35	10		fu
Barium	152	0.493	144	2.46	5	10		u
Beryllium	0.332	0.0985	0.653	0.493	--	10		u
Cadmium	2.11	0.246	1.99	1.23	--	10		u
Calcium	3420	24.6	3410	123	0	10		u
Chromium	54.2	0.493	52.7	2.46	3	10		u
Cobalt	11.5	0.985	11.5	4.93	0	10		u
Copper	20.8	0.493	19.2	2.46	8	10		u
Iron	*** usable MSS data not found ***							
Lead	34.4	0.148	35.2	0.739	2	10		u
Magnesium	3160	24.6	3150	123	0	10		u
Manganese	441	0.493	436	2.46	1	10		u
Molybdenum	ND	0.985	ND	4.93	--	10		u
Nickel	53.2	0.985	53.4	4.93	0	10		u
Selenium	*** usable MSS data not found ***							
Silver	ND	0.246	ND	1.23	--	10		u
Thallium	ND	0.246	ND	1.23	--	10		u
Vanadium	42.9	0.493	41.9	2.46	2	10		u
Zinc	64.0	0.985	63.8	4.93	0	10		u
Titanium	*** usable MSS data not found ***							

f=recovery failure u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13295635025	Seqnum : 13295635026
Filename : icp159508	Filename : icp159509
IDF : 1.0	IDF : 5.0
PDF : 48.54369	PDF : 48.54369
Run type : MSS	Run type : SER
Samplenum: 166460-001	Samplenum: QC219954
Matrix : Soil	Matrix : Soil
Batchnum : 83086	Batchnum : 83086
Inj : 24-JUL-2003 10:41	Inj : 24-JUL-2003 10:49
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.91	ND	14.6	--	10		
Arsenic	2.80	0.243	3.15	1.21	12	10		af
Barium	87.6	0.485	82.0	2.43	6	10		
Beryllium	0.364	0.0971	ND	0.485	--	10		
Cadmium	ND	0.243	ND	1.21	--	10		
Calcium	2640	24.3	2630	121	0	10		
Chromium	52.6	0.485	53.5	2.43	2	10		
Cobalt	11.7	0.971	12.0	4.85	2	10		
Copper	9.79	0.485	8.96	2.43	9	10		
Iron	*** usable MSS data not found ***							
Lead	15.2	0.146	22.0	0.728	45	10		afb*
Magnesium	2670	24.3	2670	121	0	10		
Manganese	322	0.485	320	2.43	1	10		
Molybdenum	ND	0.971	ND	4.85	--	10		
Nickel	49.7	0.971	50.0	4.85	1	10		
Potassium	828	24.3	830	121	0	10		u
Selenium	16.2	0.243	18.2	1.21	12	10		afb*
Silver	ND	0.243	ND	1.21	--	10		
Sodium	89.9	24.3	ND	121	--	10		u
Thallium	ND	0.243	14.8	1.21	--	10		a
Vanadium	37.6	0.485	36.8	2.43	2	10		
Zinc	34.3	0.971	36.1	4.85	5	10		
Boron	*** usable MSS data not found ***							
Phosphorus	*** usable MSS data not found ***							
Silicon	*** usable MSS data not found ***							
Sulfide	*** usable MSS data not found ***							
Tin	*** usable MSS data not found ***							
Titanium	*** usable MSS data not found ***							

a=rsd out b=noncompliant f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13295635027	Seqnum : 13295635028
Filename : icp159510	Filename : icp159511
IDF : 5.0	IDF : 25.0
PDF : 48.54369	PDF : 48.54369
Run type : MSS	Run type : SER
Samplenum: 166460-001	Samplenum: QC219954
Matrix : Soil	Matrix : Soil
Batchnum : 83086	Batchnum : 83086
Inj : 24-JUL-2003 10:52	Inj : 24-JUL-2003 11:34
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	8230	24.3	8580	121	4	10	u
Antimony	ND	14.6	ND	72.8	--	10	
Arsenic	ND	1.21	31.4	6.07	--	10	a
Barium	82.2	2.43	86.2	12.1	5	10	
Beryllium	0.531	0.485	ND	2.43	--	10	
Cadmium	ND	1.21	ND	6.07	--	10	
Calcium	2640	121	2750	607	4	10	
Chromium	53.3	2.43	55.9	12.1	5	10	
Cobalt	12.5	4.85	ND	24.3	--	10	
Copper	9.29	2.43	ND	12.1	--	10	
Iron	15100	24.3	15900	121	5	10	u
Lead	13.6	0.728	ND	3.64	100	10	f
Magnesium	2680	121	2800	607	5	10	
Manganese	320	2.43	338	12.1	6	10	
Molybdenum	ND	4.85	ND	24.3	--	10	
Nickel	51.8	4.85	56.6	24.3	9	10	
Potassium	872	121	843	607	--	10	ab*
Selenium	17.4	1.21	ND	6.07	327	10	f
Silver	ND	1.21	ND	6.07	--	10	
Sodium	ND	121	ND	607	--	10	
Thallium	7.77	1.21	39.9	6.07	--	10	a
Vanadium	37.6	2.43	38.4	12.1	2	10	
Zinc	36.5	4.85	43.4	24.3	--	10	
Boron	*** usable MSS data not found ***						
Phosphorus	*** usable MSS data not found ***						
Silicon	*** usable MSS data not found ***						
Sulfide	*** usable MSS data not found ***						
Tin	*** usable MSS data not found ***						
Titanium	*** usable MSS data not found ***						

a=rsd out b=noncompliant f=recovery failure u=use

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POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73295740009	Seqnum : 73295740016
Filename : tr211266	Filename : tr211273
IDF : 1.0	IDF : 1.0
PDF : 48.54369	PDF : 48.54369
Run type : MSS	Run type : PDS
Samplenum: 166460-001	Samplenum: QC220073
Matrix : Soil	Matrix : Soil
Batchnum : 83086	Batchnum : 83086
Inj : 24-JUL-2003 10:17	Inj : 24-JUL-2003 11:09
Units : ug/L	

Analyte	MSS	Spike Amt	PDS %Rec	Lim&Rec	Flags
Aluminum	*** usable MSS data not found ***				
Antimony	19.70	2000	2390 119	15-123	u
Arsenic	60.40	1000	1050 99	40-126	u
Barium	1830	2000	5070 162*	19-138	fu
Beryllium	4.680	50	55.40 101	58-120	u
Cadmium	35.00	200	231.0 98	47-120	u
Calcium	58100	20000	89540 157*	16-150	fu
Chromium	1130	2000	3030 95	35-131	u
Cobalt	250.0	500	708.0 92	39-120	u
Copper	219.0	250	686.0 187*	32-150	fu
Iron	*** usable MSS data not found ***				
Lead	176.0	2000	2590 121	23-137	u
Magnesium	60550	20000	83120 113	20-150	u
Manganese	7100	500	9480 476	15-150	:u
Molybdenum	7.310	400	399.0 98	28-120	u
Nickel	1210	500	1540 66	32-136	u
Selenium	20.80	1000	948.0 93	38-120	u
Silver	ND	200	200.0 100	55-120	u
Thallium	ND	1000	927.0 93	50-120	u
Vanadium	834.0	500	1350 103	25-130	u
Zinc	729.0	500	1700 194*	20-147	fu
Titanium	*** usable MSS data not found ***				

:=recovery not meaningful f=recovery failure u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01
Seqnum : 13295635031
Filename : icp159514
IDF : 1.0
PDF : 48.54369
Run type : PDS
Samplenum: QC220073
Matrix : Soil
Batchnum : 83086
Inj : 24-JUL-2003 11:45

MSS : 166460-001

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	13295635027	33920	20000	206400 >LR 184	15-150 ug/L	:>u
Antimony	13295635025	ND	2000	1669 83	15-123 ug/L	
Arsenic	13295635025	ND	1000	933.3 93	40-126 ug/L	
Barium	13295635025	1804	2000	4755 148*	19-138 ug/L	f
Beryllium	13295635025	7.494	50	58.48 102	58-120 ug/L	
Cadmium	13295635025	3.693	200	180.6 88	47-120 ug/L	
Calcium	13295635025	54450	20000	89480 175*	16-150 ug/L	f
Chromium	13295635025	1083	2000	2702 81	35-131 ug/L	
Cobalt	13295635025	241.3	500	659.2 84	39-120 ug/L	
Copper	13295635025	201.7	250	616.8 166*	32-150 ug/L	f
Iron	13295635027	62290	20000	324000 >LR 63	15-150 ug/L	:>u
Lead	13295635025	312.9	2000	2525 111	23-137 ug/L	
Magnesium	13295635025	55060	20000	76700 108	20-150 ug/L	
Manganese	13295635025	6638	500	8863 445	15-150 ug/L	:
Molybdenum	13295635025	ND	400	338.4 85	28-120 ug/L	
Nickel	13295635025	1024	500	1360 67	32-136 ug/L	
Potassium	13295635025	17050	10000	21630 46	22-150 ug/L	u
Selenium	13295635025	334.6	1000	1030 70	38-120 ug/L	
Silver	13295635025	ND	200	178.3 89	55-120 ug/L	
Sodium	13295635025	1851	20000	22880 105	32-133 ug/L	u
Thallium	13295635025	ND	1000	805.3 81	50-120 ug/L	
Vanadium	13295635025	775.5	500	1263 98	25-130 ug/L	
Zinc	13295635025	707.5	500	1715 202*	20-147 ug/L	f
Boron	*** usable MSS data not found ***					
Phosphorus	*** not spiked in PDS ***					
Silicon	*** not spiked in PDS ***					
Sulfide	*** not spiked in PDS ***					
Tin	*** usable MSS data not found ***					
Titanium	*** usable MSS data not found ***					

:recovery not meaningful >=>LR f=recovery failure u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13295635027	Seqnum : 13295635036
Filename : icp159510	Filename : icp159519
IDF : 5.0	IDF : 5.0
PDF : 48.54369	PDF : 48.54369
Run type : MSS	Run type : PDS
Samplenum: 166460-001	Samplenum: QC220073
Matrix : Soil	Matrix : Soil
Batchnum : 83086	Batchnum : 83086
Inj : 24-JUL-2003 10:52	Inj : 24-JUL-2003 12:44

Analyte	MSS	Spike Amt	PDS %Rec	Lim%Rec	ug/L	Flags
Aluminum	33920	20000	43580 48	15-150	ug/L	
Antimony	ND	2000	360.3 18	15-123	ug/L	
Arsenic	ND	1000	128.2 13*	40-126	ug/L	afb*
Barium	338.7	2000	997.7 33	19-138	ug/L	
Beryllium	2.188	50	11.61 19*	58-120	ug/L	f
Cadmium	ND	200	38.48 19*	47-120	ug/L	f
Calcium	10890	20000	18410 38	16-150	ug/L	
Chromium	219.6	2000	612.9 20*	35-131	ug/L	f
Cobalt	51.59	500	147.9 19*	39-120	ug/L	f
Copper	38.28	250	130.0 37	32-150	ug/L	
Iron	62290	20000	72250 50	15-150	ug/L	
Lead	ND	2000	545.8 27	23-137	ug/L	
Magnesium	11030	20000	16680 28	20-150	ug/L	
Manganese	1319	500	1971 130	15-150	ug/L	
Molybdenum	ND	400	61.91 15*	28-120	ug/L	f
Nickel	213.3	500	288.7 15*	32-136	ug/L	f
Potassium	3593	10000	4568 10*	22-150	ug/L	f
Selenium	ND	1000	272.8 27*	38-120	ug/L	afb*
Silver	ND	200	38.44 19*	55-120	ug/L	f
Sodium	356.1	20000	4348 20*	32-133	ug/L	f
Thallium	ND	1000	258.9 26*	50-120	ug/L	f
Vanadium	155.1	500	265.3 22*	25-130	ug/L	f
Zinc	150.2	500	363.2 43	20-147	ug/L	
Boron	*** usable MSS data not found ***					
Phosphorus	*** not spiked in PDS ***					
Silicon	*** not spiked in PDS ***					
Sulfide	*** not spiked in PDS ***					
Tin	*** usable MSS data not found ***					
Titanium	*** usable MSS data not found ***					

a=rsd out b=noncompliant f=recovery failure

Page 1 of 1

REPORTING SUMMARY FOR 166460 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N	
166460-001	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
166460-001	MET01	07/24/03	1.0																				
166460-001	MET01	07/24/03	5.0	+									+										
166460-002	MET07	07/24/03	1.0		+		+					+		+								+	
166460-003	MET07	07/24/03	1.0		+		+					+		+								+	
166460-004	MET07	07/24/03	1.0		+		+					+		+								+	
166460-005	MET07	07/24/03	1.0		+		+					+		+								+	
166460-006	MET07	07/24/03	1.0		+		+					+		+								+	
166460-007	MET07	07/24/03	1.0		+		+					+		+								+	
166460-008	MET07	07/24/03	1.0		+		+					+		+								+	
166460-009	MET07	07/24/03	1.0		+		+					+		+								+	
166460-010	MET07	07/24/03	1.0		+		+					+		+								+	
166460-011	MET07	07/24/03	1.0		+		+					+		+								+	
166460-012	MET07	07/24/03	1.0		+		+					+		+								+	
166460-013	MET07	07/24/03	1.0		+		+					+		+								+	
166460-014	MET07	07/24/03	1.0		+		+					+		+								+	
166460-015	MET07	07/24/03	1.0		+		+					+		+								+	
166460-017	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
166460-017	MET07	07/24/03	1.0															+					
166460-017	MET01	07/24/03	1.0	+																			
166460-017	MET01	07/24/03	5.0										+										
166460-018	MET07	07/24/03	1.0		+		+					+		+								+	
166460-019	MET07	07/24/03	1.0		+		+					+		+								+	
166460-020	MET07	07/24/03	1.0		+		+					+		+								+	
166460-021	MET07	07/24/03	1.0		+		+					+		+								+	
166460-022	MET07	07/24/03	1.0		+		+					+		+								+	
166460-022	MET07	07/24/03	1.0																				
166460-023	MET07	07/24/03	1.0		+		+					+		+								+	
166460-024	MET07	07/24/03	1.0		+		+					+		+								+	
166460-025	MET07	07/24/03	1.0		+		+					+		+								+	

REPORTING SUMMARY FOR 166460 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N	
QC219949	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC219949	MET01	07/24/03	1.0																				
QC219950	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC219950	MET01	07/24/03	1.0																				
QC219951	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC219951	MET01	07/24/03	1.0																				
QC219952	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
QC219952	MET01	07/24/03	1.0	+									+										
QC219952	MET01	07/24/03	5.0																				
QC219953	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
QC219953	MET01	07/24/03	1.0	+									+										
QC219953	MET01	07/24/03	5.0																				
QC219954	MET07	07/24/03	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
QC219954	MET01	07/24/03	5.0																				
QC219954	MET01	07/24/03	25.0	+									+										
QC220073	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
QC220073	MET01	07/24/03	1.0	+									+										
QC220073	MET01	07/24/03	5.0																				
QC220017	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220018	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220019	MET07	07/24/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220020	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	
QC220021	MET07	07/24/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	
QC220022	MET07	07/24/03	5.0		+	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	

Method: 6010B Standard: blank
Run Time: 07/24/03 08:47:17

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.001	.000	-.177	.002	.001
SDev	.000	.000	.000	.000	.001	.000	.000
%RSD	.339	49.6	4.16	71.0	.378	3.45	7.59
#1	-.001	.000	-.000	.000	-.176	.002	.002
#2	-.001	.001	-.001	.000	-.177	.002	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.002	.000	-.000	.000	.000	-.002
SDev	.000	.000	.000	.000	.000	.001	.000
%RSD	113.	14.0	370.	18.7	33.0	133.	10.4
#1	-.000	.002	.000	-.001	.000	.000	-.002
#2	-.000	.002	-.000	-.000	.000	.001	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.001	.000	.006	.0313	-.0018
SDev	.001	.000	.000	.000	.000	.0002	.0000
%RSD	150.	4410.	13.0	71.0	.649	.7786	1.990
#1	.001	.000	-.001	.000	.006	.0311	-.0018
#2	-.000	-.000	-.001	.000	.006	.0314	-.0018
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0004	-.0000	.001	.066			
SDev	.0000	.0000	.000	.001			
%RSD	10.81	715.3	29.0	1.37			
#1	.0003	-.0000	.001	.066			
#2	.0004	.0000	.001	.067			

Method: 6010B Standard: cst hi

Run Time: 07/24/03 08:53:48

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.191	.114	.044	5.69	.776	.251	.062
SDev	.007	.003	.000	.00	.002	.001	.000
%RSD	3.79	2.45	.463	.003	.240	.531	.168
#1	.186	.112	.045	5.69	.775	.250	.062
#2	.196	.116	.044	5.69	.778	.252	.062
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.169	.169	.195	.173	.339	.436	.049
SDev	.000	.000	.001	.000	.001	.001	.000
%RSD	.010	.168	.549	.009	.195	.120	.073
#1	.169	.169	.194	.173	.339	.435	.049
#2	.169	.170	.196	.173	.338	.436	.049
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.057	.100	.030	.254	.040	.0678	.0896
SDev	.000	.001	.001	.000	.000	.0001	.0001
%RSD	.718	.673	2.99	.019	.433	.1108	.0857
#1	.057	.100	.029	.254	.040	.0677	.0895
#2	.058	.101	.031	.254	.040	.0678	.0896
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0318	.0484	.296	2.25			
SDev	.0002	.0002	.000	.00			
%RSD	.6337	.3983	.122	.009			
#1	.0317	.0483	.295	2.25			
#2	.0320	.0486	.296	2.25			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5189.45	3.17137	07/24/03 08:53:48
Sb206A	206.832	Multiple	Standards	8659.61	-5.35665	07/24/03 08:53:48
As1890	189.042	Multiple	Standards	11147.5	5.72900	07/24/03 08:53:48
Ba4934	493.409	Multiple	Standards	175.846	-.039124	07/24/03 08:53:48
Be3130	313.042	Multiple	Standards	101.363	17.9182	07/24/03 08:53:48
Cd2265	226.502	Multiple	Standards	399.722	-.630158	07/24/03 08:53:48
Cr2677	267.716	Multiple	Standards	3304.66	-4.91050	07/24/03 08:53:48
Co2286	228.616	Multiple	Standards	2954.85	.204807	07/24/03 08:53:48
Cu3247	324.754	Multiple	Standards	1193.06	-2.13155	07/24/03 08:53:48
Pb2203	220.351	Multiple	Standards	2565.58	-.088529	07/24/03 08:53:48
Pb220A	220.352	Multiple	Standards	2856.46	1.32864	07/24/03 08:53:48
Mo2020	202.030	Multiple	Standards	2953.76	-.697031	07/24/03 08:53:48
Ni2316	231.604	Multiple	Standards	1146.87	-.534823	07/24/03 08:53:48
Se1960	196.021	Multiple	Standards	9812.77	19.0839	07/24/03 08:53:48
Se196A	196.022	Multiple	Standards	8802.79	-6.28055	07/24/03 08:53:48
Ag3280	328.068	Multiple	Standards	996.949	-.006442	07/24/03 08:53:48
Tl1908	190.864	Multiple	Standards	16246.7	15.1219	07/24/03 08:53:48
V_2924	292.402	Multiple	Standards	1967.68	-.437792	07/24/03 08:53:48
Zn2138	213.856	Multiple	Standards	3100.22	-19.6351	07/24/03 08:53:48
Al3082	308.215	Multiple	Standards	27757.8	-867.836	07/24/03 08:53:48
Ca3179	317.933	Multiple	Standards	21889.0	39.0673	07/24/03 08:53:48
Fe2714	271.441	Multiple	Standards	33172.2	-12.4419	07/24/03 08:53:48
Mg2790	279.079	Multiple	Standards	41269.0	.283161	07/24/03 08:53:48
Mn2576	257.610	Multiple	Standards	339.449	-.349052	07/24/03 08:53:48
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/24/03 08:53:48
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/24/03 08:53:48
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/24/03 08:53:48
Ti3349	334.941	Multiple	Standards	457.535	-30.3952	07/24/03 08:53:48

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740001

Run Name :
Filename : tr211258

Injected : 24-JUL-2003 09:00
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1030.000	ug/L	3	5	
Antimony	1000.000	966.0000	ug/L	-3	5	
Arsenic	500.0000	510.0000	ug/L	2	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	103.0000	ug/L	3	5	
Calcium	2000.000	2023.000	ug/L	1	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	511.0000	ug/L	2	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1024.000	ug/L	2	5	
Lead	500.0000	510.0000	ug/L	2	5	
Magnesium	2000.000	2049.000	ug/L	2	5	
Manganese	100.0000	102.0000	ug/L	2	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	511.0000	ug/L	2	5	
Selenium	500.0000	516.0000	ug/L	3	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	513.0000	ug/L	3	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	506.0000	ug/L	1	5	
Zinc	100.0000	103.0000	ug/L	3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740002

Run Name :
Filename : tr211259

Injected : 24-JUL-2003 09:06
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	492.0000	ug/L	-2	10	
Antimony	500.0000	547.0000	ug/L	9	10	
Arsenic	250.0000	255.0000	ug/L	2	10	
Barium	500.0000	493.0000	ug/L	-1	10	
Beryllium	50.00000	52.50000	ug/L	5	10	
Cadmium	50.00000	48.80000	ug/L	-2	10	
Calcium	1000.000	1015.000	ug/L	2	10	
Chromium	100.0000	95.80000	ug/L	-4	10	
Cobalt	250.0000	249.0000	ug/L	0	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	540.8000	ug/L	8	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	1029.000	ug/L	3	10	
Manganese	50.00000	50.30000	ug/L	1	10	
Molybdenum	500.0000	472.0000	ug/L	-6	10	
Nickel	250.0000	254.0000	ug/L	2	10	
Selenium	250.0000	240.0000	ug/L	-4	10	
Silver	50.00000	49.70000	ug/L	-1	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	507.0000	ug/L	1	10	
Vanadium	250.0000	249.0000	ug/L	0	10	
Zinc	50.00000	51.60000	ug/L	3	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740004

Run Name :
Filename : tr211261

Injected : 24-JUL-2003 09:40
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	71.39000	ug/L	-29	50	
Antimony	60.00000	75.20000	ug/L	25	50	
Arsenic	5.000000	4.470000	ug/L	-11	50	
Barium	10.00000	9.580000	ug/L	-4	50	
Beryllium	2.000000	2.640000	ug/L	32	50	
Cadmium	5.000000	4.350000	ug/L	-13	50	
Chromium	10.00000	5.660000	ug/L	-43	50	
Cobalt	20.00000	18.80000	ug/L	-6	50	
Copper	10.00000	8.880000	ug/L	-11	50	
Iron	100.0000	74.78000	ug/L	-25	50	
Lead	3.000000	4.490000	ug/L	50	50	
Manganese	10.00000	9.570000	ug/L	-4	50	
Molybdenum	20.00000	17.50000	ug/L	-13	50	
Nickel	20.00000	18.60000	ug/L	-7	50	
Selenium	5.000000	7.310000	ug/L	46	50	
Silver	5.000000	3.950000	ug/L	-21	50	
Thallium	5.000000	4.400000	ug/L	-12	50	
Vanadium	10.00000	9.430000	ug/L	-6	50	
Zinc	20.00000	22.20000	ug/L	11	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740014

Run Name :
Filename : tr211271

Injected : 24-JUL-2003 10:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	464.8000	ug/L	-7		10	
Antimony		500.0000	534.0000	ug/L	7		10	
Arsenic		250.0000	253.0000	ug/L	1		10	
Barium		500.0000	491.0000	ug/L	-2		10	
Beryllium		50.00000	50.60000	ug/L	1		10	
Cadmium		50.00000	48.50000	ug/L	-3		10	
Calcium		1000.000	1005.000	ug/L	1		10	
Chromium		100.0000	97.00000	ug/L	-3		10	
Cobalt		250.0000	246.0000	ug/L	-2		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	503.8000	ug/L	1		10	
Lead		250.0000	235.0000	ug/L	-6		10	
Magnesium		1000.000	1008.000	ug/L	1		10	
Manganese		50.00000	49.30000	ug/L	-1		10	
Molybdenum		500.0000	465.0000	ug/L	-7		10	
Nickel		250.0000	250.0000	ug/L	0		10	
Selenium		250.0000	244.0000	ug/L	-2		10	
Silver		50.00000	50.00000	ug/L	0		10	
Thallium		250.0000	236.0000	ug/L	-6		10	
Titanium		500.0000	503.0000	ug/L	1		10	
Vanadium		250.0000	246.0000	ug/L	-2		10	
Zinc		50.00000	50.40000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740026

Run Name :
Filename : tr211283

Injected : 24-JUL-2003 11:52
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	705.2000	ug/L	-6	10	
Antimony		750.0000	802.0000	ug/L	7	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	699.0000	ug/L	-7	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	70.10000	ug/L	-7	10	
Calcium		1500.000	1478.000	ug/L	-1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	744.9000	ug/L	-1	10	
Lead		375.0000	368.0000	ug/L	-2	10	
Magnesium		1500.000	1484.000	ug/L	-1	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	737.0000	ug/L	-2	10	
Nickel		375.0000	365.0000	ug/L	-3	10	
Selenium		375.0000	361.0000	ug/L	-4	10	
Silver		75.00000	73.80000	ug/L	-2	10	
Thallium		375.0000	343.0000	ug/L	-9	10	
Titanium		750.0000	741.0000	ug/L	-1	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	72.90000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740038

Run Name :
Filename : tr211295

Injected : 24-JUL-2003 12:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.3000	ug/L	2	10	
Antimony		500.0000	527.0000	ug/L	5	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	480.0000	ug/L	-4	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	46.60000	ug/L	-7	10	
Calcium		1000.000	958.4000	ug/L	-4	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	98.10000	ug/L	-2	10	
Iron		500.0000	507.5000	ug/L	2	10	
Lead		250.0000	233.0000	ug/L	-7	10	
Magnesium		1000.000	1012.000	ug/L	1	10	
Manganese		50.00000	48.00000	ug/L	-4	10	
Molybdenum		500.0000	455.0000	ug/L	-9	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	48.70000	ug/L	-3	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740050

Run Name :
Filename : tr211307

Injected : 24-JUL-2003 13:53
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	241.5000	ug/L	-3	10	
Antimony		250.0000	256.0000	ug/L	2	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	250.0000	ug/L	0	10	
Beryllium		25.00000	25.70000	ug/L	3	10	
Cadmium		25.00000	24.30000	ug/L	-3	10	
Calcium		500.0000	494.0000	ug/L	-1	10	
Chromium		50.00000	47.60000	ug/L	-5	10	
Cobalt		125.0000	126.0000	ug/L	1	10	
Copper		50.00000	50.10000	ug/L	0	10	
Iron		250.0000	264.3000	ug/L	6	10	
Lead		125.0000	124.0000	ug/L	-1	10	
Magnesium		500.0000	522.5000	ug/L	5	10	
Manganese		25.00000	25.80000	ug/L	3	10	
Molybdenum		250.0000	248.0000	ug/L	-1	10	
Nickel		125.0000	127.0000	ug/L	2	10	
Selenium		125.0000	123.0000	ug/L	-2	10	
Silver		25.00000	26.00000	ug/L	4	10	
Thallium		125.0000	119.0000	ug/L	-5	10	
Titanium		250.0000	268.0000	ug/L	7	10	
Vanadium		125.0000	127.0000	ug/L	2	10	
Zinc		25.00000	27.00000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740062

Run Name :
Filename : tr211319

Injected : 24-JUL-2003 15:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	549.8000	ug/L	10	10	
Antimony		500.0000	516.0000	ug/L	3	10	
Arsenic		250.0000	270.0000	ug/L	8	10	
Barium		500.0000	514.0000	ug/L	3	10	
Beryllium		50.00000	52.60000	ug/L	5	10	
Cadmium		50.00000	50.70000	ug/L	1	10	
Calcium		1000.000	918.7000	ug/L	-8	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	98.00000	ug/L	-2	10	
Iron		500.0000	518.2000	ug/L	4	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1025.000	ug/L	3	10	
Manganese		50.00000	49.20000	ug/L	-2	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	258.0000	ug/L	3	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	258.0000	ug/L	3	10	
Titanium		500.0000	518.0000	ug/L	4	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	52.50000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740074

Run Name :
Filename : tr211331

Injected : 24-JUL-2003 16:29
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	869.6000	ug/L	16	10	1 ***
Antimony		750.0000	730.0000	ug/L	-3	10	
Arsenic		375.0000	404.0000	ug/L	8	10	
Barium		750.0000	791.0000	ug/L	5	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	77.40000	ug/L	3	10	
Calcium		1500.000	1318.000	ug/L	-12	10	1 ***
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	142.0000	ug/L	-5	10	
Iron		750.0000	821.3000	ug/L	10	10	
Lead		375.0000	372.0000	ug/L	-1	10	
Magnesium		1500.000	1507.000	ug/L	0	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	735.0000	ug/L	-2	10	
Nickel		375.0000	392.0000	ug/L	5	10	
Selenium		375.0000	383.0000	ug/L	2	10	
Silver		75.00000	73.10000	ug/L	-3	10	
Thallium		375.0000	382.0000	ug/L	2	10	
Titanium		750.0000	761.0000	ug/L	1	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	78.00000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740003
Filename: tr211260

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 24-JUL-2003 09:18

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.5640]	100.0000	ug/L	<RL		
Antimony	[10.400]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0950]	10.00000	ug/L	<RL		
Beryllium	[0.4310]	2.000000	ug/L	<RL		
Cadmium	[0.0420]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2630]	10.00000	ug/L	<RL		
Cobalt	[0.4240]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[11.100]	100.0000	ug/L	<RL		
Lead	[0.3150]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.0590]	10.00000	ug/L	<RL		
Molybdenum	[2.3800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[2.0100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[5.8000]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[2.2700]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740015
Filename: tr211272

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 11:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[5.2530]	100.0000	ug/L	<RL	
Antimony	[18.100]	60.00000	ug/L	<RL	
Arsenic	[2.0300]	5.000000	ug/L	<RL	
Barium	[0.0720]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[23.630]	500.0000	ug/L	<RL	
Chromium	[1.0200]	10.00000	ug/L	<RL	
Cobalt	[0.1330]	10.00000	ug/L	<RL	
Copper	[1.1900]	10.00000	ug/L	<RL	
Iron	[37.240]	100.0000	ug/L	<RL	
Lead	[0.1190]	3.000000	ug/L	<RL	
Magnesium	[4.6860]	500.0000	ug/L	<RL	
Manganese	[0.3640]	10.00000	ug/L	<RL	
Molybdenum	[0.9500]	20.00000	ug/L	<RL	
Nickel	[0.0560]	20.00000	ug/L	<RL	
Selenium	[2.8600]	5.000000	ug/L	<RL	
Silver	[0.8920]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.0500]	10.00000	ug/L	<RL	
Vanadium	[0.0450]	10.00000	ug/L	<RL	
Zinc	[1.8400]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740027
Filename: tr211284

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 12:06

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[0.8708]	100.0000	ug/L	<RL	
Antimony	[5.3700]	60.00000	ug/L	<RL	
Arsenic	[0.7820]	5.000000	ug/L	<RL	
Barium	[0.0530]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[13.530]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.8940]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.2900]	3.000000	ug/L	<RL	
Magnesium	[1.7880]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[0.2940]	20.00000	ug/L	<RL	
Nickel	[0.0420]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.3500]	10.00000	ug/L	<RL	
Vanadium	[0.0550]	10.00000	ug/L	<RL	
Zinc	[2.4000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740039
Filename: tr211296

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 13:02

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[41.910]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0440]	10.00000	ug/L	<RL	
Beryllium	[0.8410]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.2240]	100.0000	ug/L	<RL	
Lead	[1.9800]	3.000000	ug/L	<RL	
Magnesium	[8.4800]	500.0000	ug/L	<RL	
Manganese	[0.1310]	10.00000	ug/L	<RL	
Molybdenum	[2.5700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.6500]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.3100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740051
Filename: tr211308

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 14:15

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[33.500]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0810]	10.00000	ug/L	<RL	
Beryllium	[0.1760]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.5900]	3.000000	ug/L	<RL	
Magnesium	[4.5170]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[2.7700]	20.00000	ug/L	<RL	
Nickel	[0.0470]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.4300]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.5800]	10.00000	ug/L	<RL	
Vanadium	[0.2960]	10.00000	ug/L	<RL	
Zinc	[2.2300]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740063
Filename: tr211320

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 15:15

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[61.420]	100.0000	ug/L	<RL	
Antimony	[7.9300]	60.00000	ug/L	<RL	
Arsenic	[1.7700]	5.000000	ug/L	<RL	
Barium	[0.1940]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[7.0240]	100.0000	ug/L	<RL	
Lead	[1.0700]	3.000000	ug/L	<RL	
Magnesium	[5.9200]	500.0000	ug/L	<RL	
Manganese	[0.2120]	10.00000	ug/L	<RL	
Molybdenum	[2.2600]	20.00000	ug/L	<RL	
Nickel	[0.2580]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0070]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[8.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.3800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73295740075
Filename: tr211332

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 16:36

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	140.7000	100.0000	ug/L	<RL	d ***
Antimony	[7.0000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.3890]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[10.910]	500.0000	ug/L	<RL	
Manganese	[0.8180]	10.00000	ug/L	<RL	
Molybdenum	[2.2700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[9.1800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[3.0300]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740005

Run Name :
Filename : tr211262

Injected : 24-JUL-2003 09:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	535300.0	ug/L	7		
Antimony	500.0000	593.0000	ug/L	19	20	
Arsenic	500.0000	548.0000	ug/L	10	20	
Barium	500.0000	532.0000	ug/L	6	20	
Beryllium	500.0000	517.0000	ug/L	3	20	
Cadmium	1000.000	986.0000	ug/L	-1	20	
Calcium	500000.0	471400.0	ug/L	-6		
Chromium	500.0000	476.0000	ug/L	-5	20	
Cobalt	500.0000	527.0000	ug/L	5	20	
Copper	500.0000	563.0000	ug/L	13	20	
Iron	200000.0	176500.0	ug/L	-12		
Lead	1000.000	1200.000	ug/L	20	20	
Magnesium	500000.0	522100.0	ug/L	4		
Manganese	500.0000	498.0000	ug/L	0	20	
Molybdenum	500.0000	495.0000	ug/L	-1	20	
Nickel	1000.000	1050.000	ug/L	5	20	
Selenium	500.0000	543.0000	ug/L	9	20	
Silver	1000.000	1100.000	ug/L	10	20	
Thallium	500.0000	488.0000	ug/L	-2	20	
Titanium	20000.00	20500.00	ug/L	3		
Vanadium	500.0000	517.0000	ug/L	3	20	
Zinc	1000.000	1010.000	ug/L	1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73295740076

Run Name :
Filename : tr211333

Injected : 24-JUL-2003 16:42
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	502700.0	ug/L	1			
Antimony	500.0000	489.0000	ug/L	-2	20		
Arsenic	500.0000	584.0000	ug/L	17	20		
Barium	500.0000	556.0000	ug/L	11	20		
Beryllium	500.0000	509.0000	ug/L	2	20		
Cadmium	1000.000	1070.000	ug/L	7	20		
Calcium	500000.0	436800.0	ug/L	-13			
Chromium	500.0000	492.0000	ug/L	-2	20		
Cobalt	500.0000	481.0000	ug/L	-4	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	188900.0	ug/L	-6			
Lead	1000.000	878.0000	ug/L	-12	20		
Magnesium	500000.0	527400.0	ug/L	5			
Manganese	500.0000	459.0000	ug/L	-8	20		
Molybdenum	500.0000	475.0000	ug/L	-5	20		
Nickel	1000.000	1100.000	ug/L	10	20		
Selenium	500.0000	545.0000	ug/L	9	20		
Silver	1000.000	1030.000	ug/L	3	20		
Thallium	500.0000	505.0000	ug/L	1	20		
Titanium	20000.00	2140.000	ug/L	-89			
Vanadium	500.0000	490.0000	ug/L	-2	20		
Zinc	1000.000	1040.000	ug/L	4	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73295740 Instrument: MET07 TJA Trace ICP

Begun: 24-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211258	CS				24-JUL-2003 09:00	1.0	1.0				1	
002	tr211259	ICV				24-JUL-2003 09:06	1.0	1.0				2	
003	tr211260	ICB				24-JUL-2003 09:18	1.0	1.0				3	
004	tr211261	CRI				24-JUL-2003 09:40	1.0	1.0				4	5:AL=535300
005	tr211262	ICSAB				24-JUL-2003 09:45	1.0	1.0					
006	tr211263	BLANK	QC219949			24-JUL-2003 09:59	1.0	50.0					
007	tr211264	BS	QC219950			24-JUL-2003 10:04	1.0	50.0					
008	tr211265	BSD	QC219951			24-JUL-2003 10:13	1.0	50.0					
009	tr211266	MSS	166460-001			24-JUL-2003 10:17	1.0	48.54369	3				3:FE=315900
010	tr211267	SER	QC219954			24-JUL-2003 10:21	5.0	48.54369		1			3:FE=388500
011	tr211268	MS	QC219952			24-JUL-2003 10:28	1.0	44.64286		1			3:FE=376700
012	tr211269	MSD	QC219953			24-JUL-2003 10:32	1.0	46.72897					3:FE=219400
013	tr211270	SAMPLE	166460-017			24-JUL-2003 10:37	1.0	45.87156	3			5	
014	tr211271	CCV				24-JUL-2003 10:44	1.0	1.0					
015	tr211272	CCB				24-JUL-2003 11:00	1.0	1.0					
016	tr211273	PDS	QC220073			24-JUL-2003 11:09	1.0	48.54369		4		6	3:FE=337400
017	tr211274	SAMPLE	166460-017			24-JUL-2003 11:14	1.0	45.87156	3				3:FE=210600
018	tr211275	SAMPLE	166460-002			24-JUL-2003 11:18	1.0	48.30918					3:FE=380400
019	tr211276	SAMPLE	166460-003			24-JUL-2003 11:22	1.0	49.50495					3:FE=323600
020	tr211277	SAMPLE	166460-004			24-JUL-2003 11:26	1.0	44.05286					2:FE=214600
021	tr211278	SAMPLE	166460-005			24-JUL-2003 11:30	1.0	49.75124					1:CA=378400
022	tr211279	SAMPLE	166460-006			24-JUL-2003 11:33	1.0	46.72897					3:FE=314400
023	tr211280	SAMPLE	166460-007			24-JUL-2003 11:37	1.0	47.84689					3:FE=325300
024	tr211281	SAMPLE	166460-008			24-JUL-2003 11:41	1.0	46.72897					3:FE=310500
025	tr211282	SAMPLE	166460-009			24-JUL-2003 11:45	1.0	47.16981					4:FE=432600
026	tr211283	CCV				24-JUL-2003 11:52	1.0	1.0				8	
027	tr211284	CCB				24-JUL-2003 12:06	1.0	1.0					
028	tr211285	SAMPLE	166460-010			24-JUL-2003 12:10	1.0	48.54369					3:FE=378400
029	tr211286	SAMPLE	166460-011			24-JUL-2003 12:14	1.0	44.84305					4:FE=357900
030	tr211287	SAMPLE	166460-012			24-JUL-2003 12:18	1.0	46.29630					2:FE=263700
031	tr211288	SAMPLE	166460-013			24-JUL-2003 12:22	1.0	40.65041					3:FE=422700
032	tr211289	SAMPLE	166460-014			24-JUL-2003 12:25	1.0	44.05286					2:FE=214300

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei W Date: 7/24/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73295740 Instrument: MET07 TJA Trace ICP

Begun: 24-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr211290	SAMPLE	166460-015	83086	Soil	24-JUL-2003 12:29	1.0	43.85965					3:FE=183600	
034	tr211291	SAMPLE	166460-018	83086	Soil	24-JUL-2003 12:33	1.0	43.47826					4:FE=254300	
035	tr211292	SAMPLE	166460-019	83086	Soil	24-JUL-2003 12:37	1.0	44.84305					4:FE=270500	
036	tr211293	SAMPLE	166460-020	83086	Soil	24-JUL-2003 12:41	1.0	45.66210					3:FE=251900	
037	tr211294	SAMPLE	166460-021	83086	Soil	24-JUL-2003 12:45	1.0	45.87156					3:FE=325800	
038	tr211295	CCV				24-JUL-2003 12:56	1.0	1.0					5	
039	tr211296	CCB				24-JUL-2003 13:02	1.0	1.0						
040	tr211297	BLANK	QC220017	83107	Soil	24-JUL-2003 13:06	1.0	50.0						
041	tr211298	BS	QC220018	83107	Soil	24-JUL-2003 13:10	1.0	50.0						
042	tr211299	BSD	QC220019	83107	Soil	24-JUL-2003 13:15	1.0	50.0					3:FE=324800	
043	tr211300	MSS	166460-022	83107	Soil	24-JUL-2003 13:21	1.0	49.26108	4					
044	tr211301	SER	QC220022	83107	Soil	24-JUL-2003 13:25	5.0	49.26108		1				
045	tr211302	MS	QC220020	83107	Soil	24-JUL-2003 13:28	1.0	46.51163	1				4:FE=376800	
046	tr211303	MSD	QC220021	83107	Soil	24-JUL-2003 13:32	1.0	46.08295		1			3:FE=360300	
047	tr211304	SAMPLE	166460-023	83107	Soil	24-JUL-2003 13:38	1.0	49.75124					3:FE=305700	
048	tr211305	SAMPLE	166460-024	83107	Soil	24-JUL-2003 13:41	1.0	48.30918					3:FE=324200	
049	tr211306	SAMPLE	166460-025	83107	Soil	24-JUL-2003 13:45	1.0	48.54369					3:FE=400700	
050	tr211307	CCV				24-JUL-2003 13:53	1.0	1.0					9	
051	tr211308	CCB				24-JUL-2003 14:15	1.0	1.0						
052	tr211309	SAMPLE	166467-005	83107	Soil	24-JUL-2003 14:19	1.0	35.21127	3				7:FE=619100	
053	tr211310	SAMPLE	166467-010	83107	Soil	24-JUL-2003 14:23	1.0	37.45318					5:FE=476000	
054	tr211311	SAMPLE	166473-001	83107	Soil	24-JUL-2003 14:26	1.0	49.75124					3:FE=261700	
055	tr211312	SAMPLE	166473-002	83107	Soil	24-JUL-2003 14:30	1.0	50.25126					4:FE=366100	
056	tr211313	SAMPLE	166473-004	83107	Soil	24-JUL-2003 14:34	1.0	46.08295	1				5:FE=360100	
057	tr211314	SAMPLE	166473-005	83107	Soil	24-JUL-2003 14:38	1.0	47.61905					4:FE=260200	
058	tr211315	SAMPLE	166473-006	83107	Soil	24-JUL-2003 14:42	1.0	44.44444					5:FE=321300	
059	tr211316	SAMPLE	166491-001	83107	Soil	24-JUL-2003 14:46	1.0	49.75124	2				6:FE=378200	
060	tr211317	SAMPLE	166491-001	83107	Soil	24-JUL-2003 14:51	1.0	49.75124	1				6:FE=378600	
061	tr211318	MSS	166460-022	83107	Soil	24-JUL-2003 14:55	1.0	49.26108	3				3:FE=355400	
062	tr211319	CCV				24-JUL-2003 15:06	1.0	1.0					5	
063	tr211320	CCB				24-JUL-2003 15:15	1.0	1.0						
064	tr211321	SAMPLE	166473-004	83107	Soil	24-JUL-2003 15:22	5.0	46.08295						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Chen Date: 7/24/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73295740 Instrument: MET07 TJA Trace ICP

Begun: 24-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr211322	SAMPLE	166491-001	83107	Soil	24-JUL-2003 15:27	5.0	49.75124	1				
066	tr211323	BLANK	QC220054	83120	Soil	24-JUL-2003 15:40	1.0	50.0	2				
067	tr211324	BS	QC220055	83120	Soil	24-JUL-2003 15:50	1.0	50.0	2				
068	tr211325	BSD	QC220056	83120	Soil	24-JUL-2003 15:56	1.0	50.0	2				
069	tr211326	MSS	166494-015	83120	Soil	24-JUL-2003 16:04	1.0	49.50495	3				1:FE=124800
070	tr211327	SER	QC220130	83120	Soil	24-JUL-2003 16:07	5.0	49.50495	1				
071	tr211328	MS	QC220057	83120	Soil	24-JUL-2003 16:15	1.0	49.01961					1:FE=155600
072	tr211329	MSD	QC220058	83120	Soil	24-JUL-2003 16:19	1.0	49.01961					1:FE=146600
073	tr211330	SAMPLE	166467-005	83107	Soil	24-JUL-2003 16:23	1.0	35.21127	1				7:FE=609900
074	tr211331	CCV				24-JUL-2003 16:29	1.0	1.0	2				
075	tr211332	CCB				24-JUL-2003 16:36	1.0	1.0	1				
076	tr211333	ICSAB				24-JUL-2003 16:42	1.0	1.0					4:MG=527400

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Wn Date: 7/24/03

Method: 6010B Standard: blank

Run Time: 07/24/03 07:08:13

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0006	-.0004	-.0003	.0007	.0001	.0006	-.0003
SDev	.0000	.0010	.0004	.0002	.0002	.0008	.0004
%RSD	.3525	236.3	141.4	28.62	141.4	141.4	141.4
#1	.0006	-.0012	-.0006	.0006	.0003	.0012	-.0006
#2	.0006	.0003	.0000	.0009	.0000	.0000	.0000
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0009	-.0007	-.0000	-.0031	.0034	.0000	.0003
SDev	.0004	.0019	.0008	.0064	.0002	.0000	.0004
%RSD	47.45	253.8	56740.	209.2	5.797	.0000	141.4
#1	.0006	.0006	.0006	-.0076	.0035	.0000	.0006
#2	.0012	-.0021	-.0006	.0015	.0032	.0000	.0000
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0001	.0001	.0007	.1860	.0023	.0004	.0001
SDev	.0002	.0002	.0010	.0020	.0013	.0006	.0002
%RSD	141.4	141.4	141.4	1.096	53.34	141.4	141.4
#1	-.0003	.0000	.0015	.1875	.0015	.0009	.0000
#2	.0000	.0003	.0000	.1846	.0032	.0000	.0003
Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	
Avge	.0202	.0147	-.0015	.0182	.0000	-.0004	
SDev	.0021	.0016	.0029	.0026	.0000	.0006	
%RSD	10.60	10.96	197.7	14.04	.0000	141.4	
#1	.0187	.0158	.0006	.0164	.0000	.0000	
#2	.0218	.0135	-.0035	.0200	.0000	-.0009	

Method: 6010B Standard: cs hi

Run Time: 07/24/03 07:11:23

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.4488	.7842	9.747	.2507	2.952	.8916	.6743
SDev	.0043	.0060	.001	.0003	.011	.0045	.0010
%RSD	.9672	.7657	.0084	.1401	.3591	.5030	.1441

#1	.4519	.7884	9.747	.2510	2.959	.8948	.6750
#2	.4457	.7799	9.746	.2505	2.944	.8884	.6736

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.075	.2683	1.972	1.613	.4522	.1497	.4574
SDev	.000	.0022	.004	.010	.0063	.0007	.0010
%RSD	.0244	.8356	.2096	.6387	1.403	.4818	.2243

#1	1.075	.2698	1.969	1.621	.4567	.1503	.4581
#2	1.075	.2667	1.975	1.606	.4477	.1492	.4566

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.6574	1.562	2.668	37.01	4.821	7.050	1.231
SDev	.0001	.002	.008	.09	.011	.019	.001
%RSD	.0187	.1069	.2874	.2491	.2361	.2741	.0668

#1	.6573	1.563	2.673	37.08	4.829	7.064	1.231
#2	.6575	1.561	2.662	36.95	4.813	7.036	1.230

Elem	K_7664	Na5889
Avge	.6494	5.680
SDev	.0036	.008
%RSD	.5531	.1328

#1	.6519	5.685
#2	.6469	5.674

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	22386.0	-13.1278	07/24/03 07:11:23
As1890	189.042	Multiple	Standards	12745.3	5.58239	07/24/03 07:11:23
Ba4934	493.409	Multiple	Standards	2051.91	.600151	07/24/03 07:11:23
Be3130	313.042	Multiple	Standards	2078.85	-1.52463	07/24/03 07:11:23
Cd2288	228.802	Multiple	Standards	3399.05	-.497082	07/24/03 07:11:23
Cr2677	267.716	Multiple	Standards	2248.11	-1.31507	07/24/03 07:11:23
Co2286	228.616	Multiple	Standards	7457.68	2.18125	07/24/03 07:11:23
Cu3247	324.754	Multiple	Standards	2331.80	-2.05286	07/24/03 07:11:23
Pb2203	220.353	Multiple	Standards	37334.9	27.4906	07/24/03 07:11:23
Mo2020	202.030	Multiple	Standards	5072.74	.007414	07/24/03 07:11:23
Ni2316	231.604	Multiple	Standards	3092.71	9.48663	07/24/03 07:11:23
Se1960	196.026	Multiple	Standards	22232.0	-74.9574	07/24/03 07:11:23
Ag3280	328.068	Multiple	Standards	6532.19	.000000	07/24/03 07:11:23
Tl1908	190.864	Multiple	Standards	21887.8	-6.40182	07/24/03 07:11:23
V_2924	292.402	Multiple	Standards	7464.93	1.09168	07/24/03 07:11:23
Zn2138	213.856	Multiple	Standards	3193.35	-.469334	07/24/03 07:11:23
Al3961	396.153	Multiple	Standards	7555.90	-5.52494	07/24/03 07:11:23
Ca3179	317.933	Multiple	Standards	1357.80	-252.605	07/24/03 07:11:23
Fe2599	259.940	Multiple	Standards	2075.20	-4.87237	07/24/03 07:11:23
Mg2790	279.079	Multiple	Standards	7060.44	-3.09759	07/24/03 07:11:23
Mn2576	257.610	Multiple	Standards	4062.82	-.597122	07/24/03 07:11:23
K_7664	766.491	Multiple	Standards	79470.2	-1608.11	07/24/03 07:11:23
Na5889	588.995	Multiple	Standards	8825.89	-129.368	07/24/03 07:11:23
Sn1899	189.989	STD4	blank	5616.65	8.26314	07/24/03 07:11:23
B_2496	249.678	STD4	blank	7529.21	-136.908	07/24/03 07:11:23
Ti3349	334.941	STD4	blank	1456.90	.000000	07/24/03 07:11:23
P_1782	178.287	STD4	blank	10e6	4523.06	07/24/03 07:11:23
S_1820	182.040	STD4	STD1-Blank	196.950	-14.4562	07/24/03 07:11:23
Si2881	288.158	STD4	STD1-Blank	18801.2	-5262.44	07/24/03 07:11:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635001

Run Name :
Filename : icp159484

Injected : 24-JUL-2003 07:15
Caltype :

Standards: 03WS1092

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	19930.00	ug/L	0	5	
Antimony	10000.00	9937.000	ug/L	-1	5	
Arsenic	10000.00	9911.000	ug/L	-1	5	
Barium	20000.00	20070.00	ug/L	0	5	
Beryllium	500.0000	503.6000	ug/L	1	5	
Cadmium	10000.00	9934.000	ug/L	-1	5	
Calcium	50000.00	49940.00	ug/L	0	5	
Chromium	2000.000	1993.000	ug/L	0	5	
Cobalt	5000.000	4990.000	ug/L	0	5	
Copper	2500.000	2496.000	ug/L	0	5	
Iron	10000.00	10000.00	ug/L	0	5	
Lead	10000.00	9931.000	ug/L	-1	5	
Magnesium	50000.00	49980.00	ug/L	0	5	
Manganese	5000.000	4988.000	ug/L	0	5	
Molybdenum	10000.00	10030.00	ug/L	0	5	
Nickel	5000.000	4998.000	ug/L	0	5	
Potassium	50000.00	49960.00	ug/L	0	5	
Selenium	10000.00	10030.00	ug/L	0	5	
Silver	1000.000	997.5000	ug/L	0	5	
Sodium	50000.00	50030.00	ug/L	0	5	
Thallium	10000.00	9936.000	ug/L	-1	5	
Vanadium	5000.000	4993.000	ug/L	0	5	
Zinc	5000.000	4994.000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635002

Run Name :
Filename : icp159485

Injected : 24-JUL-2003 07:21
Caltype :

Standards: 03WS1094

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	985.7000	ug/L	-1	10	
Antimony	2000.000	1953.000	ug/L	-2	10	
Arsenic	2000.000	1958.000	ug/L	-2	10	
Barium	1000.000	1017.000	ug/L	2	10	
Beryllium	2000.000	1991.000	ug/L	0	10	
Boron	1000.000	1052.000	ug/L	5	10	
Cadmium	2000.000	1970.000	ug/L	-2	10	
Calcium	2000.000	2034.000	ug/L	2	10	
Chromium	2000.000	2041.000	ug/L	2	10	
Cobalt	2000.000	2068.000	ug/L	3	10	
Copper	2000.000	2033.000	ug/L	2	10	
Iron	2000.000	2064.000	ug/L	3	10	
Lead	2000.000	2025.000	ug/L	1	10	
Magnesium	2000.000	2014.000	ug/L	1	10	
Manganese	2000.000	2048.000	ug/L	2	10	
Molybdenum	2000.000	2050.000	ug/L	3	10	
Nickel	2000.000	2083.000	ug/L	4	10	
Potassium	10000.00	9941.000	ug/L	-1	10	
Selenium	2000.000	1865.000	ug/L	-7	10	
Silver	1000.000	994.8000	ug/L	-1	10	
Sodium	10000.00	10060.00	ug/L	1	10	
Thallium	2000.000	2030.000	ug/L	2	10	
Titanium	2000.000	2269.000	ug/L	13	10	v ***
Vanadium	2000.000	2013.000	ug/L	1	10	
Zinc	2000.000	2031.000	ug/L	2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635004

Run Name :
Filename : icp159487

Injected : 24-JUL-2003 07:29
Caltype :

Standards: 03WS0681

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	102.4000	ug/L	2	50	
Antimony	60.00000	57.09000	ug/L	-5	50	
Arsenic	500.0000	533.6000	ug/L	7	50	
Barium	10.00000	10.77000	ug/L	8	50	
Beryllium	2.000000	2.745000	ug/L	37	50	
Boron	20.00000	20.02000	ug/L	0	50	
Cadmium	5.000000	6.687000	ug/L	34	50	
Calcium	500.0000	539.0000	ug/L	8	50	
Chromium	10.00000	12.72000	ug/L	27	50	
Cobalt	20.00000	26.08000	ug/L	30	50	
Copper	10.00000	9.985000	ug/L	0	50	
Iron	100.0000	97.12000	ug/L	-3	50	
Lead	300.0000	297.1000	ug/L	-1	50	
Magnesium	500.0000	547.0000	ug/L	9	50	
Manganese	10.00000	10.39000	ug/L	4	50	
Molybdenum	20.00000	16.26000	ug/L	-19	50	
Nickel	20.00000	22.78000	ug/L	14	50	
Phosphorus	100.0000	-10660.0	ug/L	-10760	50	# ***
Potassium	500.0000	615.6000	ug/L	23	50	
Selenium	500.0000	475.6000	ug/L	-5	50	
Silver	5.000000	4.470000	ug/L	-11	50	
Sodium	500.0000	515.8000	ug/L	3	50	
Thallium	500.0000	586.2000	ug/L	17	50	
Tin	40.00000	32.62000	ug/L	-18	50	
Titanium	10.00000	11.97000	ug/L	20	50	
Vanadium	10.00000	10.21000	ug/L	2	50	
Zinc	20.00000	25.31000	ug/L	27	50	

#=ICAL check standard failure
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635014

Run Name :
Filename : icp159497

Injected : 24-JUL-2003 08:04
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	957.7000	ug/L	-4	10	
Antimony		2000.000	1933.000	ug/L	-3	10	
Arsenic		2000.000	2003.000	ug/L	0	10	
Barium		1000.000	1013.000	ug/L	1	10	
Beryllium		2000.000	2038.000	ug/L	2	10	
Boron		1000.000	1062.000	ug/L	6	10	
Cadmium		2000.000	1995.000	ug/L	0	10	
Calcium		2000.000	2060.000	ug/L	3	10	
Chromium		2000.000	2008.000	ug/L	0	10	
Cobalt		2000.000	2062.000	ug/L	3	10	
Copper		2000.000	2041.000	ug/L	2	10	
Iron		2000.000	2084.000	ug/L	4	10	
Lead		2000.000	1957.000	ug/L	-2	10	
Magnesium		2000.000	1997.000	ug/L	0	10	
Manganese		2000.000	2046.000	ug/L	2	10	
Molybdenum		2000.000	2049.000	ug/L	2	10	
Nickel		2000.000	2126.000	ug/L	6	10	
Potassium		10000.00	9600.000	ug/L	-4	10	
Selenium		2000.000	1898.000	ug/L	-5	10	
Silver		1000.000	987.5000	ug/L	-1	10	
Sodium		10000.00	10450.00	ug/L	5	10	
Thallium		2000.000	2168.000	ug/L	8	10	
Titanium		2000.000	2255.000	ug/L	13	10	1 ***
Vanadium		2000.000	2028.000	ug/L	1	10	
Zinc		2000.000	2070.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635020

Run Name :
Filename : icp159503

Injected : 24-JUL-2003 08:34
Caltpe :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	970.6000	ug/L	-3	10	
Antimony		2000.000	1934.000	ug/L	-3	10	
Arsenic		2000.000	2069.000	ug/L	3	10	
Barium		1000.000	1027.000	ug/L	3	10	
Beryllium		2000.000	2077.000	ug/L	4	10	
Boron		1000.000	1073.000	ug/L	7	10	
Cadmium		2000.000	1997.000	ug/L	0	10	
Calcium		2000.000	2077.000	ug/L	4	10	
Chromium		2000.000	1988.000	ug/L	-1	10	
Cobalt		2000.000	2052.000	ug/L	3	10	
Copper		2000.000	2136.000	ug/L	7	10	
Iron		2000.000	2122.000	ug/L	6	10	
Lead		2000.000	2016.000	ug/L	1	10	
Magnesium		2000.000	2041.000	ug/L	2	10	
Manganese		2000.000	2049.000	ug/L	2	10	
Molybdenum		2000.000	2070.000	ug/L	4	10	
Nickel		2000.000	2111.000	ug/L	6	10	
Potassium		10000.00	10020.00	ug/L	0	10	
Selenium		2000.000	1870.000	ug/L	-7	10	
Silver		1000.000	997.5000	ug/L	0	10	
Sodium		10000.00	10800.00	ug/L	8	10	
Thallium		2000.000	2146.000	ug/L	7	10	
Titanium		2000.000	2245.000	ug/L	12	10	1 ***
Vanadium		2000.000	2048.000	ug/L	2	10	
Zinc		2000.000	2081.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635032

Run Name :
Filename : icp159515

Injected : 24-JUL-2003 11:52
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	1049.000	ug/L	5		10	
Antimony		2000.000	2048.000	ug/L	2		10	
Arsenic		2000.000	1972.000	ug/L	-1		10	
Barium		1000.000	1012.000	ug/L	1		10	
Beryllium		2000.000	1925.000	ug/L	-4		10	
Boron		1000.000	1059.000	ug/L	6		10	
Cadmium		2000.000	2039.000	ug/L	2		10	
Calcium		2000.000	2061.000	ug/L	3		10	
Chromium		2000.000	2047.000	ug/L	2		10	
Cobalt		2000.000	2094.000	ug/L	5		10	
Copper		2000.000	2050.000	ug/L	3		10	
Iron		2000.000	2143.000	ug/L	7		10	
Lead		2000.000	2022.000	ug/L	1		10	
Magnesium		2000.000	2090.000	ug/L	5		10	
Manganese		2000.000	2076.000	ug/L	4		10	
Molybdenum		2000.000	2041.000	ug/L	2		10	
Nickel		2000.000	2102.000	ug/L	5		10	
Potassium		10000.00	10290.00	ug/L	3		10	
Selenium		2000.000	2015.000	ug/L	1		10	
Silver		1000.000	1011.000	ug/L	1		10	
Sodium		10000.00	10200.00	ug/L	2		10	
Thallium		2000.000	2159.000	ug/L	8		10	
Titanium		2000.000	2081.000	ug/L	4		10	
Vanadium		2000.000	2040.000	ug/L	2		10	
Zinc		2000.000	2087.000	ug/L	4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635040

Run Name :
Filename : icp159523

Injected : 24-JUL-2003 13:18
Caltpe :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	1004.000	ug/L	0		10	
Antimony		2000.000	1996.000	ug/L	0		10	
Arsenic		2000.000	1957.000	ug/L	-2		10	
Barium		1000.000	1003.000	ug/L	0		10	
Beryllium		2000.000	1928.000	ug/L	-4		10	
Boron		1000.000	1084.000	ug/L	8		10	
Cadmium		2000.000	2023.000	ug/L	1		10	
Calcium		2000.000	2021.000	ug/L	1		10	
Chromium		2000.000	2027.000	ug/L	1		10	
Cobalt		2000.000	2065.000	ug/L	3		10	
Copper		2000.000	2030.000	ug/L	2		10	
Iron		2000.000	2082.000	ug/L	4		10	
Lead		2000.000	1996.000	ug/L	0		10	
Magnesium		2000.000	2033.000	ug/L	2		10	
Manganese		2000.000	2054.000	ug/L	3		10	
Molybdenum		2000.000	2015.000	ug/L	1		10	
Nickel		2000.000	2086.000	ug/L	4		10	
Potassium		10000.00	10140.00	ug/L	1		10	
Selenium		2000.000	1935.000	ug/L	-3		10	
Silver		1000.000	999.0000	ug/L	0		10	
Sodium		10000.00	10050.00	ug/L	1		10	
Thallium		2000.000	2199.000	ug/L	10		10	
Titanium		2000.000	2059.000	ug/L	3		10	
Vanadium		2000.000	2021.000	ug/L	1		10	
Zinc		2000.000	2078.000	ug/L	4		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13295635003
Filename: icp159486

TJA ICP
Run Name:
Blank Type: ICB

Injected: 24-JUL-2003 07:25

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[4.7950]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[5.6150]	500.0000	ug/L	<RL	
Barium	[1.1720]	10.00000	ug/L	<RL	
Beryllium	[0.7822]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	[0.9018]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[2.1860]	20.00000	ug/L	<RL	
Copper	[1.8270]	10.00000	ug/L	<RL	
Iron	[2.0440]	100.0000	ug/L	<RL	
Lead	[22.340]	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[1.6560]	10.00000	ug/L	<RL	
Molybdenum	[12.660]	20.00000	ug/L	<RL	
Nickel	[2.1730]	20.00000	ug/L	<RL	
Phosphorus	7381.000	100.0000	ug/L	<RL	d ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	[0.0053]	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	[8.1990]	40.00000	ug/L	<RL	
Titanium	[0.4077]	10.00000	ug/L	<RL	
Vanadium	[1.2310]	10.00000	ug/L	<RL	
Zinc	[2.1860]	20.00000	ug/L	<RL	

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13295635015
Filename: icp159498

TJA ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 08:08

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.0510]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[16.500]	500.0000	ug/L	<RL		
Barium	[0.8269]	10.00000	ug/L	<RL		
Beryllium	[1.3870]	2.000000	ug/L	<RL		
Boron	ND	100.0000	ug/L	<RL		
Cadmium	[1.3270]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	20.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[0.1721]	100.0000	ug/L	<RL		
Lead	[45.230]	300.0000	ug/L	<RL		
Magnesium	[9.6580]	500.0000	ug/L	<RL		
Manganese	[0.5440]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[1.7340]	20.00000	ug/L	<RL		
Phosphorus	ND	100.0000	ug/L	<RL	d ***	
Potassium	ND	500.0000	ug/L	<RL		
Selenium	[8.9850]	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	[0.0389]	5.000000	ug/L	<RL		
Sodium	[8.8630]	500.0000	ug/L	<RL		
Sulfide	ND	1.000000	mg/L	<RL		
Thallium	[59.940]	500.0000	ug/L	<RL		
Tin	[7.6550]	40.00000	ug/L	<RL		
Titanium	[0.9881]	10.00000	ug/L	<RL		
Vanadium	[0.0013]	10.00000	ug/L	<RL		
Zinc	[5.5930]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13295635021
Filename: icp159504

TJA ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 08:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	ND		60.00000	ug/L	<RL	
Arsenic	ND		500.0000	ug/L	<RL	
Barium	[1.0940]		10.00000	ug/L	<RL	
Beryllium	[1.6370]		2.000000	ug/L	<RL	
Boron	ND		100.0000	ug/L	<RL	
Cadmium	[2.7660]		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	[1.8260]		10.00000	ug/L	<RL	
Cobalt	ND		20.00000	ug/L	<RL	
Copper	[3.9540]		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	ND		300.0000	ug/L	<RL	
Magnesium	ND		500.0000	ug/L	<RL	
Manganese	[2.1670]		10.00000	ug/L	<RL	
Molybdenum	ND		20.00000	ug/L	<RL	
Nickel	[0.5031]		20.00000	ug/L	<RL	
Phosphorus	4822.000		100.0000	ug/L	<RL	d ***
Potassium	ND		500.0000	ug/L	<RL	
Selenium	ND		500.0000	ug/L	<RL	
Silicon	ND		200.0000	ug/L	<RL	
Silver	[2.6710]		5.000000	ug/L	<RL	
Sodium	[4.1420]		500.0000	ug/L	<RL	
Sulfide	ND		1.000000	mg/L	<RL	
Thallium	[30.760]		500.0000	ug/L	<RL	
Tin	[11.350]		40.00000	ug/L	<RL	
Titanium	[1.1780]		10.00000	ug/L	<RL	
Vanadium	[2.0120]		10.00000	ug/L	<RL	
Zinc	[4.2580]		20.00000	ug/L	<RL	

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13295635033
Filename: icp159516

TJA ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 12:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[5.9260]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	500.0000	ug/L	<RL		
Barium	[1.4720]	10.00000	ug/L	<RL		
Beryllium	[0.5617]	2.000000	ug/L	<RL		
Boron	ND	100.0000	ug/L	<RL		
Cadmium	[1.4350]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[2.7010]	10.00000	ug/L	<RL		
Cobalt	[1.1180]	20.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	300.0000	ug/L	<RL		
Magnesium	[21.050]	500.0000	ug/L	<RL		
Manganese	[0.5983]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[4.1210]	20.00000	ug/L	<RL		
Phosphorus	360.1000	100.0000	ug/L	<RL	d	***
Potassium	[286.90]	500.0000	ug/L	<RL		
Selenium	[31.390]	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	[0.8746]	5.000000	ug/L	<RL		
Sodium	ND	500.0000	ug/L	<RL		
Sulfide	ND	1.000000	mg/L	<RL		
Thallium	[109.90]	500.0000	ug/L	<RL		
Tin	[10.280]	40.00000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[2.0640]	10.00000	ug/L	<RL		
Zinc	[1.3420]	20.00000	ug/L	<RL		

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13295635041
Filename: icp159524

TJA ICP
Run Name:
Blank Type: CCB

Injected: 24-JUL-2003 13:24

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.7950]	100.0000	ug/L	<RL		
Antimony	[3.9860]	60.00000	ug/L	<RL		
Arsenic	[18.000]	500.0000	ug/L	<RL		
Barium	[0.2940]	10.00000	ug/L	<RL		
Beryllium	[1.6500]	2.000000	ug/L	<RL		
Boron	ND	100.0000	ug/L	<RL		
Cadmium	[0.8769]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[2.7000]	10.00000	ug/L	<RL		
Cobalt	ND	20.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	300.0000	ug/L	<RL		
Magnesium	[4.5800]	500.0000	ug/L	<RL		
Manganese	[1.0E-4]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Phosphorus	ND	100.0000	ug/L	<RL	d	***
Potassium	[48.640]	500.0000	ug/L	<RL		
Selenium	ND	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Sodium	[5.0520]	500.0000	ug/L	<RL		
Sulfide	ND	1.000000	mg/L	<RL		
Thallium	ND	500.0000	ug/L	<RL		
Tin	[11.760]	40.00000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[2.0170]	10.00000	ug/L	<RL		
Zinc	[2.6500]	20.00000	ug/L	<RL		

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INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635005

Run Name :
Filename : icp159488

Injected : 24-JUL-2003 07:39
Caltpe :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	537800.0	ug/L	8			
Antimony	2000.000	2012.000	ug/L	1	20		
Arsenic	2000.000	2003.000	ug/L	0	20		
Barium	500.0000	481.1000	ug/L	-4	20		
Beryllium	500.0000	490.1000	ug/L	-2	20		
Cadmium	1000.000	950.3000	ug/L	-5	20		
Calcium	500000.0	2951000	ug/L	490			
Chromium	500.0000	482.7000	ug/L	-3	20		
Cobalt	500.0000	488.7000	ug/L	-2	20		
Copper	500.0000	496.4000	ug/L	-1	20		
Iron	200000.0	184800.0	ug/L	-8			
Lead	1000.000	1169.000	ug/L	17	20		
Magnesium	500000.0	492500.0	ug/L	-2			
Manganese	500.0000	497.8000	ug/L	0	20		
Molybdenum	500.0000	433.3000	ug/L	-13	20		
Nickel	1000.000	945.8000	ug/L	-5	20		
Selenium	2000.000	2246.000	ug/L	12	20		
Silver	1000.000	945.5000	ug/L	-5	20		
Thallium	2000.000	1948.000	ug/L	-3	20		
Titanium	2000.000	2186.000	ug/L	9	20		
Vanadium	500.0000	460.8000	ug/L	-8	20		
Zinc	1000.000	991.4000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13295635039

Run Name :
Filename : icp159522

Injected : 24-JUL-2003 13:08
Caltpe :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	551500.0	ug/L	10			
Antimony	2000.000	2012.000	ug/L	1	20		
Arsenic	2000.000	2082.000	ug/L	4	20		
Barium	500.0000	485.3000	ug/L	-3	20		
Beryllium	500.0000	471.6000	ug/L	-6	20		
Cadmium	1000.000	983.0000	ug/L	-2	20		
Calcium	500000.0	2978000	ug/L	496			
Chromium	500.0000	485.3000	ug/L	-3	20		
Cobalt	500.0000	482.8000	ug/L	-3	20		
Copper	500.0000	502.9000	ug/L	1	20		
Iron	200000.0	186500.0	ug/L	-7			
Lead	1000.000	1103.000	ug/L	10	20		
Magnesium	500000.0	504600.0	ug/L	1			
Manganese	500.0000	507.9000	ug/L	2	20		
Molybdenum	500.0000	431.3000	ug/L	-14	20		
Nickel	1000.000	980.0000	ug/L	-2	20		
Selenium	2000.000	2021.000	ug/L	1	20		
Silver	1000.000	973.4000	ug/L	-3	20		
Thallium	2000.000	2143.000	ug/L	7	20		
Titanium	2000.000	2015.000	ug/L	1	20		
Vanadium	500.0000	480.4000	ug/L	-4	20		
Zinc	1000.000	1002.000	ug/L	0	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 24-JUL-2003

TJA ICP

Instrument: MET01

Sequence: 13295635

#	Filename Type	Sample Num	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	icp15948 CS		24-JUL-2003 07:15	1.0	1.0		1	
002	icp15948 ICB		24-JUL-2003 07:21	1.0	1.0	1	2	
003	icp15948 ICB		24-JUL-2003 07:25	1.0	1.0	1		
004	icp15948 CRI		24-JUL-2003 07:29	1.0	1.0	1	3	
005	icp15948 ICSAB		24-JUL-2003 07:39	1.0	1.0		4	6:CA=2951000
006	icp15948 BLANK	QC219943	83084 WET Le	24-JUL-2003 07:43	1.0	7		1:NA=1696000
007	icp15949 BS	QC219944	83084 WET Le	24-JUL-2003 07:45	1.0	3		
008	icp15949 BSD	QC219945	83084 WET Le	24-JUL-2003 07:48	1.0	3		
009	icp15949 MSS	166392-001	83084 WET Le	24-JUL-2003 07:50	1.0	7		2:NA=1786000
010	icp15949 SDUP	QC219946	83084 WET Le	24-JUL-2003 07:52	1.0			1:NA=1861000
011	icp15949 SSPIKE	QC219947	83084 WET Le	24-JUL-2003 07:55	1.0			2:NA=1777000
012	icp15949 SAMPLE	166487-001	83107 Miscel	24-JUL-2003 07:57	1.0	1		1:NA=501000
013	icp15949 SAMPLE	166487-002	83107 Miscel	24-JUL-2003 08:00	1.0			
014	icp15949 CCV		24-JUL-2003 08:04	1.0	1.0	1	5	
015	icp15949 CCB		24-JUL-2003 08:08	1.0	1.0	1		
016	icp15949 SAMPLE	166489-001	83107 Miscel	24-JUL-2003 08:13	20.0	1		1:CU=194300
017	icp15950 SAMPLE	166489-001	83107 Miscel	24-JUL-2003 08:18	100.0			1:P=30610.0
018	icp15950 SAMPLE	166490-001	83107 Miscel	24-JUL-2003 08:21	20.0	1		2:CU=117900
019	icp15950 SAMPLE	166490-001	83107 Miscel	24-JUL-2003 08:32	50.0			
020	icp15950 CCV		24-JUL-2003 08:34	1.0	1.0	1	5	
021	icp15950 CCB		24-JUL-2003 08:39	1.0	1.0	1		
022	icp15950 BLANK	QC219949	83086 Soil	24-JUL-2003 10:18	1.0	6		
023	icp15950 BS	QC219950	83086 Soil	24-JUL-2003 10:33	1.0	3		
024	icp15950 BSD	QC219951	83086 Soil	24-JUL-2003 10:36	1.0	3		
025	icp15950 MSS	166460-001	83086 Soil	24-JUL-2003 10:41	1.0	8		2:FE=309500
026	icp15950 SER	QC219954	83086 Soil	24-JUL-2003 10:49	5.0	2		1:P=25620.0
027	icp15951 MSS	166460-001	83086 Soil	24-JUL-2003 10:52	5.0	6		
028	icp15951 SER	QC219954	83086 Soil	24-JUL-2003 11:34	25.0	1		3:FE=381700
029	icp15951 MS	QC219952	83086 Soil	24-JUL-2003 11:37	1.0	1		4:FE=365800
030	icp15951 MSD	QC219953	83086 Soil	24-JUL-2003 11:42	1.0			4:FE=324000
031	icp15951 PDS	QC220073	83086 Soil	24-JUL-2003 11:45	1.0	4	6 7	
032	icp15951 CCV		24-JUL-2003 11:52	1.0	1.0		5	

Stds used: 1=03WS1092 2=03WS1094 3=03WS0681 4=03WS1093 5=03WS1095 6=03SS74 7=03SS75

Analyst:

Date:

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Page 1 of 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 24-JUL-2003

Sequence: 13295635 Instrument: MET01 TJA ICP

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	icp15951 CCB		24-JUL-2003 12:02	1.0	1.0	1		
034	icp15951 MS	QC219952	83086 Soil	24-JUL-2003 12:35	5.0	44.64286	3	1
035	icp15951 MSD	QC219953	83086 Soil	24-JUL-2003 12:40	5.0	46.72897	2	4
036	icp15951 PDS	QC220073	83086 Soil	24-JUL-2003 12:44	5.0	48.54369	2	13
037	icp15952 SAMPLE	166460-017	83086 Soil	24-JUL-2003 12:49	1.0	45.87156	2	
038	icp15952 SAMPLE	166460-017	83086 Soil	24-JUL-2003 12:55	5.0	45.87156		
039	icp15952 ICSAB			24-JUL-2003 13:08	1.0	1.0	4	6:CA=2978000
040	icp15952 CCV			24-JUL-2003 13:18	1.0	1.0	5	1:P=48000.0
041	icp15952 CCB			24-JUL-2003 13:24	1.0	1.0	1	

Stds used: 1=03WS1092 2=03WS1094 3=03WS0681 4=03WS1093 5=03WS1095 6=03SS74 7=03SS75

Analyst:  Date: 

Curtis & Tompkins Laboratories

Sample Preparation Summary

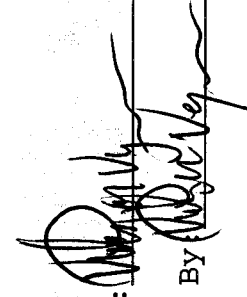
23-JUL-2003 17:28

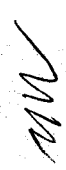
Batch Number : 83107
 Date Extracted: 23-JUL-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :


Spike #1 ID : 03SS74
 Spike #2 ID : 03SS75
 Spike #3 ID :

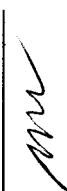
Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166460-022		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1				BA, CU, PB, SB, ZN	mss
166460-023		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166460-024		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				BA, CU, PB, SB, ZN	
166460-025		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166467-005		Port of Oakland	Soil	2.84	g	100	35.2112	1				T26/ICP	
166467-010		Port of Oakland	Soil	2.67	g	100	37.4531	1				T26/ICP	
166473-001		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				ZN	
166473-002		Treadwell & Rollo	Soil	1.99	g	100	50.2512	1				ZN	
166473-004		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				ZN	
166473-005		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				ZN	
166473-006		Treadwell & Rollo	Soil	2.25	g	100	44.4444	1				ZN	
166487-001		ConocoPhillips Company	Miscell.	2.38	g	100	42.0168	1				V	
166487-002		ConocoPhillips Company	Miscell.	2.36	g	100	42.3728	1				V	
166489-001		ConocoPhillips Company	Miscell.	2.49	g	100	40.1606	1				CU, FE, SE	
166490-001		ConocoPhillips Company	Miscell.	2.03	g	100	49.2610	1				CU, FE, SE	
166491-001		ConocoPhillips Company	Soil	2.01	g	100	49.7512	1				T26/ICP	
QC220017	BLANK		Soil	2	g	100	50	1				ICAP	
QC220018	BS		Soil	2	g	100	50	1	1			ICAP	
QC220019	MSD		Soil	2	g	100	50	1	1			ICAP	
QC220020	MS	of 166460-022	Soil	2.15	g	100	46.5116	1	1			ICAP	
QC220021	MSD	of 166460-022	Soil	2.17	g	100	46.0829	1	1			ICAP	
QC220022	SER	of 166460-022	Soil	2.03	g	100	49.2610	1	1			ICAP	

Prep Chemist: 

Reviewed By: 

Date: 7/24/03

Relinquished By: 

Received By: 

Date: 7/24/03

07/23/03

B# 83107

Rep/3050

Sample	Sample mass(g)	Final Vol (ml)	Filtered yes/no	Comments
PIK QC 220017	Ø	100.0	yes	SPIKES
*PS 220018	↓			* 035574 (t-om)
*BSN 220019	↓			* 035575 ↓
* 166460-022 MS A	275			
* -022 MSB	217			
-022	203			
-023	201			
-024	207			
↓ -025	206			
166467-005	284			
↓ 010	267			
166473-001	201			
-002	199			
-004	217			
-005	210			
↓ -006	225			
166487-001	236			
↓ -002	236			
166489-001	249			
166490-001	203			
166491-001	201			

REAGENTS
 1:1 HNO₃ V18024-070903
 HNO₃ V18024 JT Baker
 H₂O₂ 42295314 VWR
 1:1 HCL #12028-072303

VK 7/23/03

Continued on Page

Signed

07/23/03
 Date

Read and Understood By

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Signed

7/24/03
 Date

Curtis & Tompkins Laboratories Sample Preparation Summary 24-JUL-2003 11:05

Batch Number : 83086
 Date Extracted: 23-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS74
 Spike #2 ID : 03SS75
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/W	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166460-001		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				TAL/ICP	mss
166460-002		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				BA, CU, PB, SB, ZN	
166460-003		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166460-004		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				BA, CU, PB, SB, ZN	
166460-005		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166460-006		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166460-007		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166460-008		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166460-009		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166460-010		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166460-011		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
166460-012		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				BA, CU, PB, SB, ZN	
166460-013		Treadwell & Rollo	Soil	2.46	g	100	40.6504	1				BA, CU, PB, SB, ZN	
166460-014		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				BA, CU, PB, SB, ZN	
166460-015		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166460-017		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				TAL/ICP	
166460-018		Treadwell & Rollo	Soil	2.3	g	100	43.4782	1				BA, CU, PB, SB, ZN	
166460-019		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
166460-020		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN	
166460-021		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
QC219949	BLANK		Soil	2	g	100	50	1				ICAP	
QC219950	BS		Soil	2	g	100	50	1				ICAP	
QC219951	BSD		Soil	2	g	100	50	1				ICAP	
QC219952	MS	of 166460-001	Soil	2.24	g	100	44.6428	1				ICAP	
QC219953	MSD	of 166460-001	Soil	2.14	g	100	46.7289	1				ICAP	
QC219954	SER	of 166460-001	Soil	2.06	g	100	48.5436	1				ICAP	
QC220073	PDS	of 166460-001	Soil	2.06	g	100	48.5436	1				ICAP	

Prep Chemist: MW for VV Reviewed By: MW Date: 7/24/03

Relinquished By: MW Received By: MW Date: 7/24/03

07/23/03

Batch# 83086

ICAP/M 3050

SAMPLE ID	Init Vol (ml)	Final Vol ML	FILTERED YES/NO	Comments
A 106460-001 (MS)	2.06	100.0	yes	<u>SPIKES</u> ♡ 035574 (1.0ML) ♡ 035575 ↓
002	2.07			
003	2.02			
004	2.27			
005	2.01			
006	2.14			
007	2.09			
008	2.14			
009	2.12			
010	2.06			
011	2.23			
012	2.16			
013	2.46			
014	2.27			
015	2.28			
017	2.18			
018	2.30			
019	2.23			
020	2.19			
021	2.18			
MB-OC 219949	0			
✓ BS 219950				
✓ BFD 219951				
✓ MS-6460-001	2.24			
✓ MED-6460-001	2.14			

Reagents
 1:1 HNO₃ JT BAKER# 409024/009003
 HNO₃ JT BAKER# 405050
 H₂O₂ VWR# 42295317
 1:1 HCL JT BAKER# 412028/072303

Continued on Page _____

Patricia Vergara

Signed

07/25/03

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mm

Signed

7/24/03

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17726
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82361
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	icp15878	13246860013	165835-015	20-JUN-2003 13:56
2	icp15878	13246860014	165835-016	20-JUN-2003 13:59
3	icp15879	13246860016	165835-018	20-JUN-2003 14:07
4	icp15879	13246860017	165835-019	20-JUN-2003 14:14
5	icp15879	13246860018	165835-020	20-JUN-2003 14:17
6	icp15879	13246860019	165835-021	20-JUN-2003 14:20
7	icp15879	13246860021	165835-017	20-JUN-2003 14:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	10.000000	10.265000	10.565000	10.720000	10.850000	10.880000	9.140000	9.305000	2.3	5.0	mg/Kg	u
Antimony	6.000000	5.185000	5.605000	5.950000	5.495000	4.590500	5.115000	5.455000	1.4	3.0	mg/Kg	u
Barium	1.000000	1.051000	1.064000	1.016500	1.013500	1.011000	0.906000	0.968000	0.17	0.50	mg/Kg	u
Beryllium	0.200000	0.268100	0.271250	0.271000	0.275100	0.264900	0.250200	0.280800	0.030	0.10	mg/Kg	u
Calcium	20.000000	20.105000	20.080000	19.505000	19.780000	19.015000	17.190000	17.885000	3.6	25	mg/Kg	u
Cobalt	2.000000	1.935000	1.958500	1.897500	1.977500	1.858000	1.744500	1.902000	0.25	1.0	mg/Kg	u
Copper	1.000000	1.055500	1.102500	1.067500	0.980500	0.978500	0.945000	0.914500	0.22	0.50	mg/Kg	u
Iron	10.000000	10.855000	10.425000	10.225000	10.365000	10.300000	9.385000	9.720000	1.5	5.0	mg/Kg	u
Magnesium	20.000000	18.880000	19.215000	18.970000	19.470000	18.730000	17.150000	17.590000	2.7	25	mg/Kg	u
Manganese	1.000000	0.922500	0.934000	0.932500	0.944500	0.972500	0.850500	0.834500	0.16	0.50	mg/Kg	u
Molybdenum	2.000000	2.081000	2.065000	2.181500	2.088000	2.059000	1.979000	2.000000	0.21	1.0	mg/Kg	u
Silver	0.500000	0.490950	0.496300	0.345800	0.397900	0.388800	0.339400	0.303650	0.23	0.25	mg/Kg	Bu
Zinc	2.000000	2.359000	2.292500	2.112000	2.115000	2.020000	2.017000	2.109000	0.41	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17728
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	icp15880	13246860025	165835-022	20-JUN-2003 14:56
2	icp15880	13246860026	165835-023	20-JUN-2003 14:58
3	icp15880	13246860027	165835-024	20-JUN-2003 15:01
4	icp15880	13246860028	165835-025	20-JUN-2003 15:03
5	icp15880	13246860029	165835-026	20-JUN-2003 15:05
6	icp15880	13246860030	165835-027	20-JUN-2003 15:08
7	icp15880	13246860031	165835-028	20-JUN-2003 15:10

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Cadmium	0.7500000	0.6970000	0.6700000	0.6555000	0.7260000	0.7830000	0.7190000	0.7675000	0.15	0.25	mg/Kg	Bu
Nickel	3.0000000	2.8370000	2.4365000	3.0390000	3.2460000	2.8850000	2.7440000	2.6855000	0.81	1.0	mg/Kg	Bu
Vanadium	1.5000000	1.3975000	1.4940000	1.4575000	1.4725000	1.3815000	1.3915000	1.5540000	0.20	0.50	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17743
Study Date: 27-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82540
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	icp15896	13256931017	165835-029	27-JUN-2003 11:21
2	icp15896	13256931018	165835-030	27-JUN-2003 11:25
3	icp15896	13256931019	165835-031	27-JUN-2003 12:33
4	icp15896	13256931020	165835-032	27-JUN-2003 12:36
5	icp15897	13256931021	165835-033	27-JUN-2003 12:42
6	icp15897	13256931022	165835-034	27-JUN-2003 12:45
7	icp15897	13256931023	165835-035	27-JUN-2003 12:49

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	50.000000	44.450000	46.605000	50.100000	50.450000	49.705000	49.555000	49.065000	6.9	25	mg/Kg	u
Chromium	1.0000000	0.8550000	1.0980000	1.0295000	1.0170000	0.9505000	1.1180000	1.0015000	0.28	0.50	mg/Kg	Bu
Lead	30.000000	29.090000	32.975000	31.890000	32.245000	28.100000	30.890000	30.575000	5.5	15	mg/Kg	u
Potassium	50.000000	47.905000	42.560000	42.820000	55.850000	41.830000	46.550000	50.750000	16	25	mg/Kg	Bu
Selenium	50.000000	45.580000	49.925000	49.850000	51.950000	50.500000	49.015000	48.370000	6.3	25	mg/Kg	u
Sodium	50.000000	52.650000	52.950000	54.450000	56.250000	56.000000	55.300000	56.150000	4.8	25	mg/Kg	Bu
Thallium	50.000000	47.560000	52.350000	53.200000	53.950000	48.675000	51.350000	52.150000	7.4	25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83112
 Date: 07/24/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166460-001	10.9794	16.1715	15.8139	93	7
166460-002	15.5730	21.4981	21.0590	93	7
166460-003	15.8317	22.5270	22.0118	92	8
166460-004	15.1760	22.7953	22.5327	97	3
166460-005	10.9908	16.5225	14.5027	63	37
166460-006	11.7463	18.5652	17.8593	90	10
166460-007	15.3831	21.8928	21.3377	91	9
166460-008	11.0513	17.5297	16.9819	92	8
166460-009	15.7141	21.6313	21.0806	91	9
166460-010	11.3312	17.3541	16.7664	90	10
166460-011	15.7888	22.4460	21.8534	91	9
166460-012	15.3737	22.2380	21.7972	94	6
166460-013	11.1341	16.9626	16.3514	90	10
166460-014	11.1240	17.4607	17.1664	95	5
166460-015	15.8399	21.4424	21.3220	98	2
166460-017	15.8517	22.3440	22.1514	97	3
166460-018	15.3594	22.5447	22.1539	95	5
166460-019	15.8931	22.9770	22.5799	94	6
166460-020	15.0818	22.2181	21.7678	94	6
166460-021	10.9920	17.9888	17.4693	93	7
QC220035	15.3296	21.4788	21.0427	93	7
of 166460-001			RPD:	0.2%	2.9%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83112
 Date Started: 23-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166460-001		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-002		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-003		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-004		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-005		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-006		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-007		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-008		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-009		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-010		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-011		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-012		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-013		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-014		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-015		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-017		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-018		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-019		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-020		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-021		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
QC220035	SDUP	of 166460-001	Soil	MOISTURE	

7/23/03

83112

Sample	Dish #	Tare #	Ini. wt.	Fin. wt.	Comments
BLANK	X2	15.3230	—	15.3226	SIEVE
166460-1	ZAX	10.9794	16.1715	15.8139	
- 1 DUP	20A	15.3296	21.4788	21.0427	
- 2	5X	15.5730	21.4981	21.0590	
- 3	24	15.8317	22.5270	22.0118	
- 4	2C	15.1700	22.7953	22.5327	
- 5	12A	10.9908	16.5225	14.5027	
- 6	1A	11.7463	18.5652	17.8593	
- 7	11A	15.3831	21.8928	21.3377	
- 8	ABC	11.0513	17.5297	16.4819	
- 9	13X	15.7141	21.6313	21.0806	
- 10	V1	11.3312	17.3541	16.7664	
- 11	3Y	15.7888	22.4460	21.8534	
- 12	Ø	15.3737	22.2380	21.7972	
- 13	IT	11.1341	16.9626	16.3514	
- 14	III	11.1240	17.4607	17.1664	
- 15	6X	15.8399	21.4424	21.3220	
- 17	15D	15.8517	22.3440	22.1514	
- 18	70D	15.3594	22.5247	22.1539	
- 19	20D	15.8931	22.9770	22.5799	
- 20	5L	15.0818	22.2181	21.7678	
- 21	10L	10.9920	17.9888	17.4293	

OVEN TEMP: 105°C

TIME IN : 3:41 P.M.

TIME OUT: 9:30 A.M.

ON: 7/24/03

Continued on Page

Read and Understood By

R. Manning

Signed

7/23/03

Date

157

K. D. Schur

Signed

7/24/03

Date

Percent Moisture Summary Report

Batch: 83113
Date: 07/24/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166460-022	15.3823	21.2065	20.7584	92	8
166460-023	15.8119	21.8477	21.3380	92	8
166460-024	15.9976	21.1281	20.7884	93	7
166460-025	15.2962	22.7508	22.1472	92	8
166501-001	15.4367	22.1061	21.0415	84	16
166501-002	15.6308	21.6642	21.4029	96	4
166501-003	11.1849	20.2305	18.6668	83	17
166501-004	15.1978	21.1866	20.3339	86	14
166501-005	15.9683	24.8495	23.2444	82	18
166501-006	15.1891	21.0946	20.0250	82	18
166501-007	15.3546	21.7312	20.4315	80	20
166501-008	15.5112	21.7484	20.7928	85	15
166501-009	15.5575	22.9749	21.6977	83	17
166501-010	15.5196	21.9712	20.7604	81	19
166501-011	15.5265	21.1118	20.4639	88	12
166501-012	15.3836	21.4098	20.7956	90	10
166501-013	10.9513	18.4361	17.1462	83	17
166501-014	11.2050	19.4993	18.8707	92	8
166501-015	15.8226	21.3432	20.3470	82	18
166501-016	10.9523	18.0726	17.4513	91	9
QC220036	15.2864	21.3651	20.4453	85	15
of 166501-001			RPD:	1.0%	5.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83113
 Date Started: 23-JUL-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166460-022		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-023		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-024		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166460-025		Treadwell & Rollo	Soil	MOISTURE	28-JUL-2003
166501-001		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-002		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-003		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-004		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-005		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-006		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-007		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-008		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-009		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-010		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-011		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-012		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-013		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-014		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-015		URS Corporation	Soil	MOISTURE	24-JUL-2003
166501-016		URS Corporation	Soil	MOISTURE	24-JUL-2003
QC220036	SDUP	of 166501-001	Soil	MOISTURE	

7/23/03

83113

Sample	Dish #	Tare #	INI. wt.	Fin. wt.	Comments
BLANK	ID	15.7311	-	15.7323	
1166501-1	3E	15.4367	22.1061	21.0415	
-1DUP	35	15.2864	21.3651	20.4453	
-2	6D	15.6308	21.6642	21.4029	
-3	V	11.1849	20.2305	18.6668	
-4	FA	15.1978	21.1866	20.3339	
-5	5D	15.9683	24.8495	23.2444	
-6	5	15.1891	21.0946	20.0250	
-7	M2	15.3546	21.7312	20.4315	
-8	18	15.5112	21.7484	20.7928	
-9	21	15.5575	22.9749	21.6677	
-10	000	15.5196	21.9712	20.7604	
-11	14	15.5265	21.1118	20.4639	
-12	4C	15.3836	21.4098	20.7956	
-13	JED	10.9513	18.4361	17.1462	
-14	IV	11.2050	19.4993	18.8707	
-15	LOW	15.8226	21.3432	20.3270	
-16	12C	10.9523	18.0726	17.4513	
1166460-22	5A	15.3823	21.2065	20.7584	Sieved ↓
-23	X11	15.8119	21.8477	21.3380	
-24	16D	15.9976	21.1281	20.7884	
-25	1971	15.2962	22.7508	22.1472	

oven temp: 105°C

time in: 5:35pm

time out: 9:50 A.M. - on: 7/24/03

Continued on Page

Read and Understood by

K Dutch

7/23/03

160

J. L. W.

J. L. W.

Signed

Date

Signed

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166494

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio MOB

<u>Sample ID</u>	<u>Lab ID</u>
MGBS02 [1]	166494-001
MGBS02 [2]	166494-002
MGBS02 [1] RB [2]	166494-003
MGBS10 [1]	166494-004
MGBS10 [2]	166494-005
MGBS08 [1]	166494-006
MGBS08 [2]	166494-007
MGBS09 [1]	166494-008
MGBS09 [2]	166494-009
MGBS07 [1]	166494-010
MGBS07 [2]	166494-011
LCPSB34 [1]	166494-012
LCPSB34 [2]	166494-013
DUP072303A	166494-014
LCPSB35 [1]	166494-015
LCPSB35 [2]	166494-016
LCPSB32 [1]	166494-017
LCPSB32 [2]	166494-018
LCPSB30 [1]	166494-019
LCPSB30 [2]	166494-020

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/5/03

Signature: _____

Project Manager

Date: _____

8/4/03

Laboratory Number: **166494**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Firing Range**

Order Date: **07/23/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and nineteen soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries for lead and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for antimony, copper, nickel, selenium, and zinc were outside acceptance limits. The associated blank spike recoveries were acceptable.

The serial dilution sample analyzed on 7/25/03 at 08:21 was outside acceptance limits for copper. No other analytical problems were encountered.

Chain of Custody

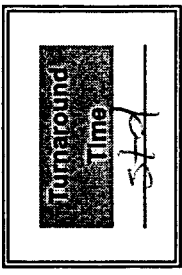
166494

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Firing Range
Job Number: 2873-07

Project Manager/Contact: Dorena Shipman
Samplers: DJS/ERL
Recorder (Signature Required): D. Autherhold



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested					Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice		Other	Silica gel clean-up					
-1 H6B08C10	7-22-03	1115		X								X					5 metals	
-2 H6B08C10	7-22-03	1144		X								X					Pb, Zn, Cu, Ba, Sb	
-3 H6B08C10	7-22-03	1135		X								X					19 metals	
-4 H6B08C10	7-22-03	1335		X								X					Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Se, Ag, Ti, Vn and Zn	
-5 H6B08C10	7-22-03	1350		X								X						
-6 H6B08C10	7-22-03	1410		X								X						
-7 H6B08C10	7-22-03	1420		X								X						
-8 H6B08C10	7-22-03	1440		X								X						
-9 H6B08C10	7-22-03	1450		X								X						
-10 H6B08C10	7-22-03	1500		X								X						
-11 H6B08C10	7-22-03	1510		X								X						
-12 LCP5B34C10	7-23-03	1026		X								X						
-13 LCP5B34C10	7-23-03	1030		X								X						
-14 DUP012303A	7-23-03	1031		X								X						
Relinquished by: (Signature)	Date	Time																
Relinquished by: (Signature)	Date	Time																
Relinquished by: (Signature)	Date	Time																
Relinquished by: (Signature)	Date	Time																

Received by (Signature): [Signature] Date: 7/23/03 Time: 1110
Received by (Signature): [Signature] Date: 7/23/03 Time: 1110
Received by Lab: (Signature) Date: 7/23/03 Time: 1110

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS
☐ Hand Carried ☐ Private Courier (Co. Name)

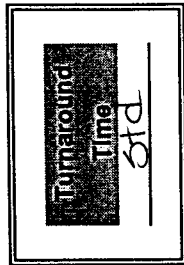
Sent to Laboratory (Name): Curtis Tompkins
Laboratory Comments/Notes:

166494

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Firing Ranges
 Job Number: 2893.079
 Project Manager/Contact: Dorinda Shipman
 Samplers: DJS/RRR
 Recorder (Signature Required): R. R. R.



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested	Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice				
LCPSB 35 [1]	7/23/03	1040		X							1			5 Metals -
LCPSB 35 [2]	7/23/03	1042		X							1			Pb, Zn, Cu, Ba, Sb
LCPSB 32 [1]	7/23/03	1046		X							1			19 Metals -
LCPSB 32 [2]	7/23/03	1048		X							1			See Page 1
LCPSB 30 [1]	7/23/03	1100		X							1			
LCPSB 30 [2]	7/23/03	1102		X							1			
[Large diagonal line across the table]														
Relinquished by: (Signature)	Date	7-23-03	Time	1110										
Relinquished by: (Signature)	Date		Time											
Relinquished by: (Signature)	Date		Time											
Sent to Laboratory (Name): <u>Curtis & Tompkins</u>				Method of Shipment: <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS										
Laboratory Comments/Notes:				Received by: (Signature) <u>[Signature]</u> Date <u>7/30/03</u> Time <u>1110</u>										
				Received by: (Signature) <u>[Signature]</u> Date <u></u> Time <u></u>										
				Received by Lab: (Signature) <u></u> Date <u></u> Time <u></u>										

COC Number: 002852

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

need in tract in loc

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166494 Date Received: 7/23/03 Number of Coolers: 1
Client: TREADWELL ROLL CO Project: PRESIDIO FIRING RANGE

A. Preliminary Examination Phase

Date Opened: 7/23/03 By (print): G. HAHN (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc.)? YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler? YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? YES ☒ NO ☒

4. Were custody papers dry and intact when received? YES ☒ NO

5. Were custody papers filled out properly (ink, signed, etc.)? YES ☒ NO

6. Did you sign the custody papers in the appropriate place? YES ☒ NO ☒

7. Was project identifiable from custody papers? YES ☒ NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES ☒ NO

Type of ice: WET Temperature: COLD

B. Login Phase

Date Logged In: 7/23/03 By (print): G. HAHN (sign) [Signature]

1. Describe type of packing in cooler: BAGGED IN ZIPLOC

2. Did all bottles arrive unbroken? YES ☒ NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES ☒ NO

4. Did bottle labels agree with custody papers? YES ☒ NO

5. Were appropriate containers used for the tests indicated? YES ☒ NO

6. Were correct preservatives added to samples? YES ☒ NO

7. Was sufficient amount of sample sent for tests indicated? YES ☒ NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below: YES ☒ NO ☒

9. Was the client contacted concerning this sample delivery? YES ☒ NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	MGBSB02[1]RB[2]	Sampled:	07/22/03
Matrix:	Water	Received:	07/23/03
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03
Batch#:	83128		

Type: SAMPLE

Lab ID: 166494-003

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	54	20

Type: BLANK

Lab ID: QC220088

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83128
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Type: BS Lab ID: QC220089

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	552.0	110	80-120
Barium	2,000	2,000	100	80-120
Copper	250.0	250.0	100	80-120
Lead	100.0	103.0	103	80-120
Zinc	500.0	498.0	100	80-120

Type: BSD Lab ID: QC220090

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	558.0	112	80-120	1	20
Barium	2,000	2,030	102	80-120	1	20
Copper	250.0	254.0	102	80-120	2	20
Lead	100.0	105.0	105	80-120	2	20
Zinc	500.0	506.0	101	80-120	2	20



Curtis & Tompkins Laboratories Analytical Report

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83128
MSS Lab ID:	166471-001	Sampled:	07/22/03
Matrix:	Water	Received:	07/22/03
Units:	ug/L	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Type: MS Lab ID: QC220091

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	556.0	111	75-125
Barium	475.0	2,000	2,410	97	75-125
Copper	<0.4200	250.0	257.0	103	75-125
Lead	<1.300	100.0	92.00	92	75-125
Zinc	27.40	500.0	496.0	94	75-125

Type: MSD Lab ID: QC220092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	572.0	114	75-125	3	20
Barium	2,000	2,480	100	75-125	3	20
Copper	250.0	265.0	106	75-125	3	20
Lead	100.0	95.10	95	75-125	3	20
Zinc	500.0	502.0	95	75-125	1	20

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73297038050	Seqnum : 73297038051
Filename : tr211385	Filename : tr211386
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166471-001	Samplenum: QC220093
Matrix : Water	Matrix : Water
Batchnum : 83128	Batchnum : 83128
Inj : 25-JUL-2003 11:38	Inj : 25-JUL-2003 11:41
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	ND	100	ND	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	ND	5.00	ND	25.0	--	10	u
Barium	475	10.0	461	50.0	3	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	ND	5.00	ND	25.0	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	ND	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	1660	100	1570	500	5	10	u
Lead	ND	3.00	ND	15.0	--	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	3830	10.0	3860	50.0	1	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	ND	5.00	ND	25.0	--	10	u
Vanadium	10.1	10.0	ND	50.0	--	10	u
Zinc	27.4	20.0	ND	100	--	10	u
Titanium	17.5	10.0	ND	50.0	--	10	u

Method: 6010B Standard: blank
Run Time: 07/25/03 06:22:22

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.126	.001	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	164.	46.5	59.3	1.48	.095	29.2	6.20

#1	-.002	.001	-.001	.001	-.126	.001	.000
#2	.000	.001	-.000	.001	-.126	.001	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.002	-.000	.000	.001	-.001
SDev	.000	.000	.000	.000	.000	.000	.001
%RSD	120.	10.9	.870	72.2	76.9	7.07	56.1

#1	-.000	-.003	.002	-.001	.000	.001	-.002
#2	-.000	-.002	.002	-.000	.000	.001	-.001

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0353	-.0060
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	31.6	52.8	96.2	23.3	.698	.2434	.3886

#1	.001	.000	-.000	.000	.006	.0353	-.0060
#2	.001	.001	-.001	.001	.006	.0354	-.0060

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0008	.0000	.000	.073
SDev	.0000	.0000	.000	.000
%RSD	2.299	28.07	70.5	.406

#1	-.0008	.0000	.000	.072
#2	-.0008	.0000	.000	.073

Method: 6010B Standard: cst hi
Run Time: 07/25/03 06:29:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.192	.108	.044	5.65	.776	.256	.062
SDev	.009	.005	.000	.01	.001	.001	.000
%RSD	4.52	4.47	.384	.128	.101	.197	.174
#1	.186	.105	.044	5.65	.775	.256	.062
#2	.199	.112	.044	5.64	.776	.257	.063
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.170	.153	.194	.175	.335	.440	.050
SDev	.000	.000	.001	.000	.000	.001	.000
%RSD	.058	.155	.615	.127	.017	.146	.334
#1	.170	.153	.195	.175	.335	.439	.050
#2	.170	.154	.193	.175	.335	.440	.050
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.057	.095	.030	.245	.040	.0679	.0787
SDev	.000	.000	.000	.000	.000	.0001	.0002
%RSD	.253	.194	.006	.065	.147	.1926	.1993
#1	.057	.095	.030	.245	.040	.0680	.0785
#2	.057	.096	.030	.245	.040	.0678	.0788
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0323	.0480	.281	2.22			
SDev	.0001	.0001	.000	.00			
%RSD	.3887	.1411	.027	.008			
#1	.0322	.0480	.281	2.22			
#2	.0324	.0481	.281	2.22			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5152.90	3.60125	07/25/03 06:29:23
Sb206A	206.832	Multiple	Standards	9121.50	-6.93364	07/25/03 06:29:23
As1890	189.042	Multiple	Standards	11243.1	4.27380	07/25/03 06:29:23
Ba4934	493.409	Multiple	Standards	177.056	-.138188	07/25/03 06:29:23
Be3130	313.042	Multiple	Standards	107.165	13.4879	07/25/03 06:29:23
Cd2265	226.502	Multiple	Standards	391.407	-.389153	07/25/03 06:29:23
Cr2677	267.716	Multiple	Standards	3221.07	-.978804	07/25/03 06:29:23
Co2286	228.616	Multiple	Standards	2942.44	.264554	07/25/03 06:29:23
Cu3247	324.754	Multiple	Standards	1281.02	3.39276	07/25/03 06:29:23
Pb2203	220.351	Multiple	Standards	2599.64	-4.63236	07/25/03 06:29:23
Pb220A	220.352	Multiple	Standards	2826.80	1.03562	07/25/03 06:29:23
Mo2020	202.030	Multiple	Standards	2986.14	-.722487	07/25/03 06:29:23
Ni2316	231.604	Multiple	Standards	1137.53	-.974300	07/25/03 06:29:23
Se1960	196.021	Multiple	Standards	9695.22	13.7360	07/25/03 06:29:23
Se196A	196.022	Multiple	Standards	8940.83	-9.87679	07/25/03 06:29:23
Ag3280	328.068	Multiple	Standards	1052.60	-.465004	07/25/03 06:29:23
Tl1908	190.864	Multiple	Standards	16297.6	7.75843	07/25/03 06:29:23
V_2924	292.402	Multiple	Standards	2045.16	-1.01676	07/25/03 06:29:23
Zn2138	213.856	Multiple	Standards	3096.23	-19.6311	07/25/03 06:29:23
Al3082	308.215	Multiple	Standards	31109.3	-1099.03	07/25/03 06:29:23
Ca3179	317.933	Multiple	Standards	23617.0	142.401	07/25/03 06:29:23
Fe2714	271.441	Multiple	Standards	31509.3	24.3736	07/25/03 06:29:23
Mg2790	279.079	Multiple	Standards	41643.7	-1.43765	07/25/03 06:29:23
Mn2576	257.610	Multiple	Standards	355.786	-.088393	07/25/03 06:29:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Ti3349	334.941	Multiple	Standards	466.157	-33.8220	07/25/03 06:29:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038001

Run Name :
Filename : tr211336

Injected : 25-JUL-2003 06:38
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	1007.000	ug/L	1	5	
Antimony	1000.000	956.0000	ug/L	-4	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	998.0000	ug/L	0	5	
Beryllium	100.0000	98.60000	ug/L	-1	5	
Cadmium	100.0000	99.10000	ug/L	-1	5	
Calcium	2000.000	1966.000	ug/L	-2	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	495.0000	ug/L	-1	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	981.6000	ug/L	-2	5	
Lead	500.0000	499.0000	ug/L	0	5	
Magnesium	2000.000	1981.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	1030.000	ug/L	3	5	
Nickel	500.0000	497.0000	ug/L	-1	5	
Selenium	500.0000	502.0000	ug/L	0	5	
Silver	100.0000	99.40000	ug/L	-1	5	
Thallium	500.0000	503.0000	ug/L	1	5	
Titanium	1000.000	994.0000	ug/L	-1	5	
Vanadium	500.0000	495.0000	ug/L	-1	5	
Zinc	100.0000	98.80000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038002

Run Name :
Filename : tr211337

Injected : 25-JUL-2003 06:48
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	494.3000	ug/L	-1	10	
Antimony	500.0000	506.0000	ug/L	1	10	
Arsenic	250.0000	260.0000	ug/L	4	10	
Barium	500.0000	499.0000	ug/L	0	10	
Beryllium	50.00000	50.30000	ug/L	1	10	
Cadmium	50.00000	49.20000	ug/L	-2	10	
Calcium	1000.000	980.8000	ug/L	-2	10	
Chromium	100.0000	99.90000	ug/L	0	10	
Cobalt	250.0000	252.0000	ug/L	1	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	482.8000	ug/L	-3	10	
Lead	250.0000	249.0000	ug/L	0	10	
Magnesium	1000.000	1029.000	ug/L	3	10	
Manganese	50.00000	50.10000	ug/L	0	10	
Molybdenum	500.0000	505.0000	ug/L	1	10	
Nickel	250.0000	256.0000	ug/L	2	10	
Selenium	250.0000	245.0000	ug/L	-2	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	246.0000	ug/L	-2	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	252.0000	ug/L	1	10	
Zinc	50.00000	51.40000	ug/L	3	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038004

Run Name :
Filename : tr211339

Injected : 25-JUL-2003 07:37
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	79.77000	ug/L	-20		50	
Antimony	60.00000	58.50000	ug/L	-3		50	
Arsenic	5.000000	3.400000	ug/L	-32		50	
Barium	10.00000	9.510000	ug/L	-5		50	
Beryllium	2.000000	1.490000	ug/L	-26		50	
Cadmium	5.000000	4.320000	ug/L	-14		50	
Chromium	10.00000	8.330000	ug/L	-17		50	
Cobalt	20.00000	18.30000	ug/L	-9		50	
Copper	10.00000	6.950000	ug/L	-31		50	
Iron	100.0000	79.88000	ug/L	-20		50	
Lead	3.000000	2.880000	ug/L	-4		50	
Manganese	10.00000	9.500000	ug/L	-5		50	
Molybdenum	20.00000	17.10000	ug/L	-15		50	
Nickel	20.00000	18.90000	ug/L	-6		50	
Selenium	5.000000	6.510000	ug/L	30		50	
Silver	5.000000	4.990000	ug/L	0		50	
Thallium	5.000000	4.630000	ug/L	-7		50	
Vanadium	10.00000	9.570000	ug/L	-4		50	
Zinc	20.00000	20.60000	ug/L	3		50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038013

Run Name :
Filename : tr211348

Injected : 25-JUL-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	472.0000	ug/L	-6	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	52.80000	ug/L	6	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	1087.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	497.2000	ug/L	-1	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.50000	ug/L	1	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.20000	ug/L	2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	51.80000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038025

Run Name :
Filename : tr211360

Injected : 25-JUL-2003 09:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.4000	ug/L	-4	10	
Antimony		750.0000	727.0000	ug/L	-3	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1488.000	ug/L	-1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	755.0000	ug/L	1	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1508.000	ug/L	1	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	761.0000	ug/L	1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	370.0000	ug/L	-1	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038037

Run Name :
Filename : tr211372

Injected : 25-JUL-2003 10:25
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.1000	ug/L	-2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	52.30000	ug/L	5	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	977.9000	ug/L	-2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	512.1000	ug/L	2	10	
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	52.00000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038048

Run Name :
Filename : tr211383

Injected : 25-JUL-2003 11:20
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	788.7000	ug/L	5	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	737.0000	ug/L	-2	10	
Beryllium		75.00000	78.20000	ug/L	4	10	
Cadmium		75.00000	75.80000	ug/L	1	10	
Calcium		1500.000	1430.000	ug/L	-5	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	377.0000	ug/L	1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	750.1000	ug/L	0	10	
Lead		375.0000	390.0000	ug/L	4	10	
Magnesium		1500.000	1532.000	ug/L	2	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	777.0000	ug/L	4	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	388.0000	ug/L	3	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	378.0000	ug/L	1	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	77.20000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038060

Run Name :
Filename : tr211395

Injected : 25-JUL-2003 12:32
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	261.8000	ug/L	5	10	
Antimony		250.0000	273.0000	ug/L	9	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	247.0000	ug/L	-1	10	
Beryllium		25.00000	25.70000	ug/L	3	10	
Cadmium		25.00000	24.60000	ug/L	-2	10	
Calcium		500.0000	482.9000	ug/L	-3	10	
Chromium		50.00000	49.00000	ug/L	-2	10	
Cobalt		125.0000	124.0000	ug/L	-1	10	
Copper		50.00000	47.70000	ug/L	-5	10	
Iron		250.0000	227.5000	ug/L	-9	10	
Lead		125.0000	123.0000	ug/L	-2	10	
Magnesium		500.0000	511.3000	ug/L	2	10	
Manganese		25.00000	24.40000	ug/L	-2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	126.0000	ug/L	1	10	
Selenium		125.0000	127.0000	ug/L	2	10	
Silver		25.00000	25.10000	ug/L	0	10	
Thallium		125.0000	123.0000	ug/L	-2	10	
Titanium		250.0000	262.0000	ug/L	5	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	27.40000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038072

Run Name :
Filename : tr211407

Injected : 25-JUL-2003 13:34
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	525.4000	ug/L	5		10	
Antimony		500.0000	483.0000	ug/L	-3		10	
Arsenic		250.0000	259.0000	ug/L	4		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	51.30000	ug/L	3		10	
Cadmium		50.00000	49.30000	ug/L	-1		10	
Calcium		1000.000	1063.000	ug/L	6		10	
Chromium		100.0000	98.50000	ug/L	-2		10	
Cobalt		250.0000	244.0000	ug/L	-2		10	
Copper		100.0000	96.50000	ug/L	-4		10	
Iron		500.0000	477.7000	ug/L	-4		10	
Lead		250.0000	247.0000	ug/L	-1		10	
Magnesium		1000.000	1006.000	ug/L	1		10	
Manganese		50.00000	47.70000	ug/L	-5		10	
Molybdenum		500.0000	494.0000	ug/L	-1		10	
Nickel		250.0000	254.0000	ug/L	2		10	
Selenium		250.0000	245.0000	ug/L	-2		10	
Silver		50.00000	49.90000	ug/L	0		10	
Thallium		250.0000	264.0000	ug/L	6		10	
Titanium		500.0000	504.0000	ug/L	1		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038084

Run Name :
Filename : tr211419

Injected : 25-JUL-2003 14:18
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	736.6000	ug/L	-2	10	
Antimony		750.0000	699.0000	ug/L	-7	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	719.0000	ug/L	-4	10	
Beryllium		75.00000	74.90000	ug/L	0	10	
Cadmium		75.00000	71.10000	ug/L	-5	10	
Calcium		1500.000	1531.000	ug/L	2	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	361.0000	ug/L	-4	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	718.4000	ug/L	-4	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1475.000	ug/L	-2	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	718.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	357.0000	ug/L	-5	10	
Silver		75.00000	73.20000	ug/L	-2	10	
Thallium		375.0000	351.0000	ug/L	-6	10	
Titanium		750.0000	738.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	72.90000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038096

Run Name :
Filename : tr211431

Injected : 25-JUL-2003 15:11
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.0000	ug/L	2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	52.10000	ug/L	4	10	
Cadmium		50.00000	49.60000	ug/L	-1	10	
Calcium		1000.000	1092.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	96.20000	ug/L	-4	10	
Iron		500.0000	501.3000	ug/L	0	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	52.40000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038108

Run Name :
Filename : tr211443

Injected : 25-JUL-2003 15:55
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	766.3000	ug/L	2	10	
Antimony		750.0000	724.0000	ug/L	-3	10	
Arsenic		375.0000	395.0000	ug/L	5	10	
Barium		750.0000	760.0000	ug/L	1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	75.40000	ug/L	1	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	727.1000	ug/L	-3	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1520.000	ug/L	1	10	
Manganese		75.00000	71.80000	ug/L	-4	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	73.70000	ug/L	-2	10	
Thallium		375.0000	369.0000	ug/L	-2	10	
Titanium		750.0000	760.0000	ug/L	1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	76.90000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038120

Run Name :
Filename : tr211456

Injected : 25-JUL-2003 16:54
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.0000	ug/L	-5	10	
Antimony		500.0000	519.0000	ug/L	4	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	961.2000	ug/L	-4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	96.70000	ug/L	-3	10	
Iron		500.0000	504.7000	ug/L	1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1016.000	ug/L	2	10	
Manganese		50.00000	49.40000	ug/L	-1	10	
Molybdenum		500.0000	492.0000	ug/L	-2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	50.80000	ug/L	2	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	52.10000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038003
Filename: tr211338

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 25-JUL-2003 06:53

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[3.0800]	60.00000	ug/L	<RL	
Arsenic	[1.8000]	5.000000	ug/L	<RL	
Barium	[0.1370]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.5060]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.9400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.3100]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.5500]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038014
Filename: tr211349

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 08:33

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[5.4350]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1000]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[5.9330]	100.0000	ug/L	<RL	
Lead	[0.7710]	3.000000	ug/L	<RL	
Magnesium	[6.1790]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.6900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.6500]	5.000000	ug/L	<RL	
Silver	[0.6100]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.1600]	10.00000	ug/L	<RL	
Vanadium	[0.1100]	10.00000	ug/L	<RL	
Zinc	[2.1800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038026
Filename: tr211361

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 09:35

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1610]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[8.0250]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[9.0610]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[2.8400]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[3.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.7900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[2.2600]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038038
Filename: tr211373

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 10:29

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[8.4260]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1340]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2270]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[13.380]	100.0000	ug/L	<RL		
Lead	[0.0500]	3.000000	ug/L	<RL		
Magnesium	[4.2040]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[4.7900]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[0.1750]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.9200]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[2.3100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038049
Filename: tr211384

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 11:25

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[3.7730]	100.0000	ug/L	<RL	
Antimony	[5.0000]	60.00000	ug/L	<RL	
Arsenic	[3.5600]	5.000000	ug/L	<RL	
Barium	[0.1850]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.8440]	500.0000	ug/L	<RL	
Chromium	[0.3040]	10.00000	ug/L	<RL	
Cobalt	[0.3100]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[3.2340]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.3100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[4.5700]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.9800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[6.2600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038061
Filename: tr211396

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 12:46

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[28.230]	100.0000	ug/L	<RL		
Antimony	[5.1200]	60.00000	ug/L	<RL		
Arsenic	[4.7600]	5.000000	ug/L	<RL		
Barium	[0.2690]	10.00000	ug/L	<RL		
Beryllium	[0.7170]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[10.220]	100.0000	ug/L	<RL		
Lead	[2.1900]	3.000000	ug/L	<RL		
Magnesium	[10.960]	500.0000	ug/L	<RL		
Manganese	[0.0370]	10.00000	ug/L	<RL		
Molybdenum	[4.3600]	20.00000	ug/L	<RL		
Nickel	[0.2650]	20.00000	ug/L	<RL		
Selenium	[1.5100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[8.2600]	10.00000	ug/L	<RL		
Vanadium	[0.1400]	10.00000	ug/L	<RL		
Zinc	[5.5900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038073
Filename: tr211408

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 13:37

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[74.720]	100.0000	ug/L	<RL	
Antimony	[5.6300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2250]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[17.570]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0750]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[0.2779]	100.0000	ug/L	<RL	
Lead	[1.1000]	3.000000	ug/L	<RL	
Magnesium	[12.440]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[7.3800]	20.00000	ug/L	<RL	
Nickel	[0.4710]	20.00000	ug/L	<RL	
Selenium	[4.9900]	5.000000	ug/L	<RL	
Silver	[0.3450]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[8.6400]	10.00000	ug/L	<RL	
Vanadium	[1.2200]	10.00000	ug/L	<RL	
Zinc	[5.4800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038085
Filename: tr211420

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 14:25

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[42.800]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2660]		10.00000	ug/L	<	RL
Beryllium	[0.0660]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[15.410]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.8060]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[7.3000]		20.00000	ug/L	<	RL
Nickel	[0.5180]		20.00000	ug/L	<	RL
Selenium	[4.2000]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[9.7900]		10.00000	ug/L	<	RL
Vanadium	[0.7910]		10.00000	ug/L	<	RL
Zinc	[3.3700]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038097
Filename: tr211432

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 15:15

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[45.690]	100.0000	ug/L	<RL		
Antimony	[9.1800]	60.00000	ug/L	<RL		
Arsenic	[4.3500]	5.000000	ug/L	<RL		
Barium	[0.0860]	10.00000	ug/L	<RL		
Beryllium	[1.2000]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[40.000]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.9680]	100.0000	ug/L	<RL		
Lead	[0.0290]	3.000000	ug/L	<RL		
Magnesium	[17.180]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[6.7100]	20.00000	ug/L	<RL		
Nickel	[1.1300]	20.00000	ug/L	<RL		
Selenium	[1.9800]	5.000000	ug/L	<RL		
Silver	[0.0690]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.2300]	10.00000	ug/L	<RL		
Vanadium	[1.7700]	10.00000	ug/L	<RL		
Zinc	[3.7900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038109
Filename: tr211444

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 16:01

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[55.160]	100.0000	ug/L	<RL		
Antimony	[5.8400]	60.00000	ug/L	<RL		
Arsenic	[1.9700]	5.000000	ug/L	<RL		
Barium	[0.1040]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.3590]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[0.7679]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[11.100]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[4.3000]	20.00000	ug/L	<RL		
Nickel	[0.0670]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.0200]	10.00000	ug/L	<RL		
Vanadium	[0.2310]	10.00000	ug/L	<RL		
Zinc	[3.8100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038121
Filename: tr211457

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 17:04

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[22.730]	100.0000	ug/L	<RL	
Antimony	[24.000]	60.00000	ug/L	<RL	
Arsenic	[0.7990]	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	[1.2600]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2510]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.5700]	3.000000	ug/L	<RL	
Magnesium	[8.6450]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5400]	10.00000	ug/L	<RL	
Vanadium	[0.0390]	10.00000	ug/L	<RL	
Zinc	[4.7500]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038005

Run Name :
Filename : tr211340

Injected : 25-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	544000.0	ug/L	9			
Antimony	500.0000	457.0000	ug/L	-9	20		
Arsenic	500.0000	526.0000	ug/L	5	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	508.0000	ug/L	2	20		
Cadmium	1000.000	941.0000	ug/L	-6	20		
Calcium	500000.0	504900.0	ug/L	1			
Chromium	500.0000	474.0000	ug/L	-5	20		
Cobalt	500.0000	476.0000	ug/L	-5	20		
Copper	500.0000	558.0000	ug/L	12	20		
Iron	200000.0	183300.0	ug/L	-8			
Lead	1000.000	852.0000	ug/L	-15	20		
Magnesium	500000.0	526400.0	ug/L	5			
Manganese	500.0000	491.0000	ug/L	-2	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	515.0000	ug/L	3	20		
Silver	1000.000	1080.000	ug/L	8	20		
Thallium	500.0000	456.0000	ug/L	-9	20		
Titanium	20000.00	2070.000	ug/L	-90			
Vanadium	500.0000	495.0000	ug/L	-1	20		
Zinc	1000.000	986.0000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038122

Run Name :
Filename : tr211458

Injected : 25-JUL-2003 17:08
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	532200.0	ug/L	6		
Antimony	500.0000	520.0000	ug/L	4	20	
Arsenic	500.0000	545.0000	ug/L	9	20	
Barium	500.0000	522.0000	ug/L	4	20	
Beryllium	500.0000	496.0000	ug/L	-1	20	
Cadmium	1000.000	974.0000	ug/L	-3	20	
Calcium	500000.0	484200.0	ug/L	-3		
Chromium	500.0000	482.0000	ug/L	-4	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	559.0000	ug/L	12	20	
Iron	200000.0	186800.0	ug/L	-7		
Lead	1000.000	902.0000	ug/L	-10	20	
Magnesium	500000.0	527100.0	ug/L	5		
Manganese	500.0000	492.0000	ug/L	-2	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	1040.000	ug/L	4	20	
Selenium	500.0000	541.0000	ug/L	8	20	
Silver	1000.000	1060.000	ug/L	6	20	
Thallium	500.0000	468.0000	ug/L	-6	20	
Titanium	20000.00	2260.000	ug/L	-89		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	985.0000	ug/L	-2	20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211336	CS				25-JUL-2003 06:38 1.0	1.0	1.0				1	
002	tr211337	ICV				25-JUL-2003 06:48 1.0	1.0	1.0				2	
003	tr211338	ICB				25-JUL-2003 06:53 1.0	1.0	1.0				3	
004	tr211339	CRI				25-JUL-2003 07:37 1.0	1.0	1.0				4	4:AL=544000
005	tr211340	ICSAB				25-JUL-2003 07:45 1.0	1.0	1.0					
006	tr211341	BLANK				25-JUL-2003 07:51 1.0	50.0	50.0					
007	tr211342	BS				25-JUL-2003 07:55 1.0	50.0	50.0					
008	tr211343	BSD				25-JUL-2003 07:59 1.0	50.0	50.0					
009	tr211344	MSS				25-JUL-2003 08:04 1.0	49.50495 1	49.50495					1:FE=125200
010	tr211345	SER				25-JUL-2003 08:12 5.0	49.50495	49.50495					
011	tr211346	MSS				25-JUL-2003 08:17 5.0	49.50495	49.50495					
012	tr211347	SER				25-JUL-2003 08:21 25.0	49.50495	49.50495					
013	tr211348	CCV				25-JUL-2003 08:26 1.0	1.0	1.0				5	
014	tr211349	CCB				25-JUL-2003 08:33 1.0	1.0	1.0					
015	tr211350	MS				25-JUL-2003 08:37 1.0	49.01961	49.01961					1:FE=157300
016	tr211351	MSD				25-JUL-2003 08:41 1.0	49.01961	49.01961					1:FE=139400
017	tr211352	PDS				25-JUL-2003 08:45 1.0	49.50495	49.50495				6 7	1:FE=140700
018	tr211353	SAMPLE				25-JUL-2003 08:51 1.0	46.72897 1	46.72897					2:FE=245000
019	tr211354	SAMPLE				25-JUL-2003 08:54 1.0	49.50495	49.50495					3:FE=272600
020	tr211355	SAMPLE				25-JUL-2003 08:58 1.0	49.01961	49.01961					1:FE=159800
021	tr211356	SAMPLE				25-JUL-2003 09:02 1.0	46.51163	46.51163					2:FE=152000
022	tr211357	SAMPLE				25-JUL-2003 09:06 1.0	47.16981	47.16981					2:FE=192000
023	tr211358	SAMPLE				25-JUL-2003 09:10 1.0	45.87156 1	45.87156					1:FE=164900
024	tr211359	SAMPLE				25-JUL-2003 09:14 1.0	50.25126	50.25126					1:FE=158500
025	tr211360	CCV				25-JUL-2003 09:26 1.0	1.0	1.0				8	
026	tr211361	CCB				25-JUL-2003 09:35 1.0	1.0	1.0					
027	tr211362	SAMPLE				25-JUL-2003 09:39 1.0	46.72897	46.72897					2:FE=234700
028	tr211363	SAMPLE				25-JUL-2003 09:44 1.0	45.87156	45.87156					1:FE=160500
029	tr211364	SAMPLE				25-JUL-2003 09:48 1.0	50.0	50.0					1:FE=149500
030	tr211365	SAMPLE				25-JUL-2003 09:52 1.0	45.66210	45.66210					2:FE=266600
031	tr211366	SAMPLE				25-JUL-2003 09:56 1.0	47.39336	47.39336					3:FE=449200
032	tr211367	SAMPLE				25-JUL-2003 10:00 1.0	48.07692	48.07692					1:FE=130900

stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Wu Date: 7/25/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
033	tr211368	SAMPLE	166494-013	83120	Soil	25-JUL-2003 10:04	1.0	48.30918				1:FE=127700	
034	tr211369	SAMPLE	166494-014	83120	Soil	25-JUL-2003 10:07	1.0	47.16981				1:FE=136300	
035	tr211370	SAMPLE	166494-016	83120	Soil	25-JUL-2003 10:11	1.0	48.07692				1:FE=131000	
036	tr211371	SAMPLE	166494-017	83120	Soil	25-JUL-2003 10:15	1.0	50.0				1:FE=121900	
037	tr211372	CCV				25-JUL-2003 10:25	1.0	1.0					5
038	tr211373	CCB				25-JUL-2003 10:29	1.0	1.0					
039	tr211374	SAMPLE	166488-001	83120	Miscel	25-JUL-2003 10:33	50.0	48.07692	1			1:CU=88000.0	
040	tr211375	SAMPLE	166488-001	83120	Miscel	25-JUL-2003 10:37	500.0	48.07692					
041	tr211376	SAMPLE	166494-013	83120	Soil	25-JUL-2003 10:41	1.0	48.30918				1:FE=127100	
042	tr211377	SAMPLE	166494-018	83120	Soil	25-JUL-2003 10:45	1.0	48.54369				1:FE=135400	
043	tr211378	SAMPLE	166494-019	83120	Soil	25-JUL-2003 10:49	1.0	49.01961				1:FE=146700	
044	tr211379	SAMPLE	166494-020	83120	Soil	25-JUL-2003 10:53	1.0	48.07692				1:FE=141300	
045	tr211380	BLANK				25-JUL-2003 11:00	1.0	1.0					
046	tr211381	BS				25-JUL-2003 11:04	1.0	1.0					
047	tr211382	BSD				25-JUL-2003 11:08	1.0	1.0					
048	tr211383	CCV				25-JUL-2003 11:20	1.0	1.0					8
049	tr211384	CCB				25-JUL-2003 11:25	1.0	1.0					
050	tr211385	MSS	166471-001	83128	Water	25-JUL-2003 11:38	1.0	1.0	2			2:MG=382800	
051	tr211386	SER	QC220093	83128	Water	25-JUL-2003 11:41	5.0	1.0					
052	tr211387	MS	QC220091	83128	Water	25-JUL-2003 11:45	1.0	1.0				2:MG=386800	
053	tr211388	MSD	QC220092	83128	Water	25-JUL-2003 11:49	1.0	1.0				2:MG=384000	
054	tr211389	SAMPLE	166471-002	83128	Water	25-JUL-2003 11:52	1.0	1.0	2				
055	tr211390	SAMPLE	166471-003	83128	Water	25-JUL-2003 11:56	1.0	1.0					
056	tr211391	SAMPLE	166471-002	83128	Water	25-JUL-2003 11:59	1.0	1.0					
057	tr211392	SAMPLE	166471-003	83128	Water	25-JUL-2003 12:03	1.0	1.0					
058	tr211393	SAMPLE	166473-003	83128	Water	25-JUL-2003 12:06	1.0	1.0					
059	tr211394	SAMPLE	166460-016	83128	Water	25-JUL-2003 12:10	1.0	1.0					
060	tr211395	CCV				25-JUL-2003 12:32	1.0	1.0					9
061	tr211396	CCB				25-JUL-2003 12:46	1.0	1.0					
062	tr211397	SAMPLE	166494-003	83128	Water	25-JUL-2003 12:51	1.0	1.0					
063	tr211398	BLANK	QC19894	83069	Miscel	25-JUL-2003 12:58	1.0	50.0	1				
064	tr211399	BS	QC219895	83069	Miscel	25-JUL-2003 13:02	1.0	50.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Me Lu Date: 7/24/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr211400	BSD	QC219896	83069	Miscel	25-JUL-2003	13:06 1.0	50.0					
066	tr211401	MSS	166334-001	83069	Miscel	25-JUL-2003	13:10 10.0	49.01961 4					1:CA=414500
067	tr211402	MS	QC219897	83069	Miscel	25-JUL-2003	13:13 10.0	43.47826		1			1:CA=438700
068	tr211403	MSD	QC219898	83069	Miscel	25-JUL-2003	13:17 10.0	44.84305		1			1:CA=438100
069	tr211404	MSS	166334-001	83069	Miscel	25-JUL-2003	13:21 10.0	49.01961 1					1:CA=412500
070	tr211405	MS	QC219897	83069	Miscel	25-JUL-2003	13:24 10.0	43.47826		2			1:CA=433300
071	tr211406	MSD	QC219898	83069	Miscel	25-JUL-2003	13:28 10.0	44.84305		2			1:CA=430700
072	tr211407	CCV				25-JUL-2003	13:34 1.0	1.0				5	
073	tr211408	CCB				25-JUL-2003	13:37 1.0	1.0					
074	tr211409	SAMPLE	166334-002	83069	Miscel	25-JUL-2003	13:43 10.0	42.55319					1:CA=524300
075	tr211410	SAMPLE	166334-003	83069	Miscel	25-JUL-2003	13:47 10.0	49.01961					1:CA=325400
076	tr211411	SAMPLE	166334-004	83069	Miscel	25-JUL-2003	13:50 10.0	44.64286					1:CA=350300
077	tr211412	SAMPLE	166334-005	83069	Miscel	25-JUL-2003	13:54 10.0	40.16064 1					1:CA=451300
078	tr211413	SAMPLE	166334-006	83069	Miscel	25-JUL-2003	13:57 10.0	49.50495					1:CA=469100
079	tr211414	SAMPLE	166334-007	83069	Miscel	25-JUL-2003	14:01 10.0	38.91051					1:CA=525700
080	tr211415	SAMPLE	166334-008	83069	Miscel	25-JUL-2003	14:04 10.0	37.87879 1					1:CA=585600
081	tr211416	SAMPLE	166334-009	83069	Miscel	25-JUL-2003	14:08 10.0	46.29630 1					1:CA=416400
082	tr211417	SAMPLE	166334-010	83069	Miscel	25-JUL-2003	14:11 10.0	41.32231 6					1:CA=384700
083	tr211418	SAMPLE	166467-005	83107	Soil	25-JUL-2003	14:15 10.0	35.21127 1					
084	tr211419	CCV				25-JUL-2003	14:18 1.0	1.0				8	
085	tr211420	CCB				25-JUL-2003	14:25 1.0	1.0					
086	tr211421	BLANK	QC219894	83069	Miscel	25-JUL-2003	14:32 1.0	50.0					
087	tr211422	SAMPLE	166334-002	83069	Miscel	25-JUL-2003	14:39 10.0	42.55319 2					1:CA=526800
088	tr211423	SAMPLE	166334-003	83069	Miscel	25-JUL-2003	14:42 10.0	49.01961					1:CA=324300
089	tr211424	SAMPLE	166334-004	83069	Miscel	25-JUL-2003	14:45 10.0	44.64286 1					1:CA=351900
090	tr211425	SAMPLE	166334-005	83069	Miscel	25-JUL-2003	14:49 10.0	40.16064 1					1:CA=454100
091	tr211426	SAMPLE	166334-006	83069	Miscel	25-JUL-2003	14:52 10.0	49.50495 1					1:CA=474200
092	tr211427	SAMPLE	166334-007	83069	Miscel	25-JUL-2003	14:56 10.0	38.91051					1:CA=524900
093	tr211428	SAMPLE	166334-008	83069	Miscel	25-JUL-2003	14:59 10.0	37.87879 2					1:CA=580300
094	tr211429	SAMPLE	166334-009	83069	Miscel	25-JUL-2003	15:03 10.0	46.29630 1					1:CA=421000
095	tr211430	SAMPLE	166334-010	83069	Miscel	25-JUL-2003	15:06 10.0	41.32231 1					1:CA=482600
096	tr211431	CCV				25-JUL-2003	15:11 1.0	1.0				5	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Wen Date: 7/23/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Std's Used	>LR
097	tr211432	CCB				25-JUL-2003	15:15 1.0	1.0					
098	tr211433	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:19 10.0	47.84689					1:CA=450300
099	tr211434	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:22 10.0	43.29004	1				1:CA=511300
100	tr211435	SAMPLE	166334-013	83069	Miscel	25-JUL-2003	15:26 10.0	40.16064					1:CA=504200
101	tr211436	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:29 10.0	44.64286					1:CA=455200
102	tr211437	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:33 10.0	47.84689	2				1:CA=453900
103	tr211438	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:36 10.0	43.29004					1:CA=508300
104	tr211439	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:41 10.0	44.64286					1:CA=445200
105	tr211440	SAMPLE	166405-008	83069	Soil	25-JUL-2003	15:44 1.0	49.26108	2				3:FE=295200
106	tr211441	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:48 1.0	1.0	1				1:CA=212800
107	tr211442	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:51 1.0	1.0	1				1:CA=214300
108	tr211443	CCV				25-JUL-2003	15:55 1.0	1.0				8	
109	tr211444	CCB				25-JUL-2003	16:01 1.0	1.0					
110	tr211445	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:05 1.0	1.0	3				2:MG=766800
111	tr211446	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:08 1.0	1.0	2				2:MG=760000
112	tr211447	BLANK	QC220150	83149	Air	25-JUL-2003	16:18 1.0	600.2401					4
113	tr211448	BS	QC220151	83149	Air	25-JUL-2003	16:24 1.0	600.2401					
114	tr211449	BSD	QC220152	83149	Air	25-JUL-2003	16:28 1.0	600.2401					
115	tr211450	MSS	166371-001	83149	Air	25-JUL-2003	16:31 1.0	600.2401	2				
116	tr211451	MSS	166371-001	83149	Air	25-JUL-2003	16:39 1.0	600.2401	1				
117	tr211452	MS	QC220153	83149	Air	25-JUL-2003	16:43 1.0	600.2401					
118	tr211453	MSD	QC220154	83149	Air	25-JUL-2003	16:46 1.0	600.2401					
119	tr211454	SAMPLE	166371-002	83149	Air	25-JUL-2003	16:50 1.0	600.2401					
120	tr211456	CCV				25-JUL-2003	16:54 1.0	1.0				5	
121	tr211457	CCB				25-JUL-2003	17:04 1.0	1.0					
122	tr211458	ICSAB				25-JUL-2003	17:08 1.0	1.0				4	4:AL=532200

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Wu Date: 7/24/03
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24-JUL-2003 12:19

Spike #	ID	...	0355177
1	ID	...	0355177
2	ID	...	0355178
3	ID	...	

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07/24/03		Batch # 83128		ICAP 143010	
SAMPLE ID		INIT VOL (ML)	FINAL VOL (ML)	FILTERED YES/NO	COMMENTS
A	166460-016	50.0	50.0	NO	SPIKES
↓	166461-001				✓ 0395177 (0.5 ML)
↓	002				✓ 0395178 ↓
ANA	166464-008				
A	↓ 014				
J	166471-001 (HSS)				
D	↓ 002				
↓	↓ 003				
A	166473-003				
↓	166477-001				
↓	↓ 002				
↓	↓ 003				
↓	166478-002				
↓	↓ 003				
↓	↓ 004				
↓	↓ 005				
D	166478-006				
A	166494-003				
MB	QC 220098				
✓	BS 220099				
✓	BSD 220090				
✓	MS-6471-001				
✓	MSD-6471-001				
✓	SPIKE-6464-008				

Reagents
HNO3 JT BAKER # Y05050
1:1 HCL JT BAKER # Y12028/072303

Continued on Page 4

Read and Understood By

mu7/25/03Petia Vergara
Signed07/24/03

Date

46

Signed

Date

Method Detection Limit Study for EPA 6010B / 200.7

6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B/200.7 ✓ 6/25/03
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

6/25/03

Method Detection Limit Study for EPA 6010B / 2a.7
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

Target Analyte List Metals

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB35 [1]	Batch#:	83120
Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Moisture: 1%

Analyte	Result	RL	Diin Fac
Aluminum	3,400	5.0	1.000
Antimony	ND	3.0	1.000
Arsenic	2.2	0.25	1.000
Barium	11	0.50	1.000
Beryllium	ND	0.10	1.000
Cadmium	0.68	0.25	1.000
Chromium	20	0.50	1.000
Cobalt	3.9	1.0	1.000
Copper	29	0.50	1.000
Iron	6,300	25	5.000
Lead	58	0.15	1.000
Magnesium	1,600	25	1.000
Manganese	110	0.50	1.000
Nickel	30	1.0	1.000
Selenium	0.57	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	15	0.50	1.000
Zinc	15	1.0	1.000

ND= Not Detected

RL= Reporting Limit

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Barium			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Batch#:	83120
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled
MGBS02 [1]	SAMPLE	166494-001	70	0.58	dry	20%	07/22/03
MGBS02 [2]	SAMPLE	166494-002	65	0.56	dry	12%	07/22/03
MGBS10 [1]	SAMPLE	166494-004	24	0.51	dry	4%	07/22/03
MGBS10 [2]	SAMPLE	166494-005	42	0.48	dry	4%	07/22/03
MGBS08 [1]	SAMPLE	166494-006	67	0.48	dry	2%	07/22/03
MGBS08 [2]	SAMPLE	166494-007	12	0.47	dry	2%	07/22/03
MGBS09 [1]	SAMPLE	166494-008	23	0.52	dry	3%	07/22/03
MGBS09 [2]	SAMPLE	166494-009	16	0.51	dry	2%	07/22/03
MGBS07 [1]	SAMPLE	166494-010	30	0.49	dry	7%	07/22/03
MGBS07 [2]	SAMPLE	166494-011	21	0.53	dry	10%	07/22/03
LCPSB34 [1]	SAMPLE	166494-012	12	0.50	dry	3%	07/23/03
LCPSB34 [2]	SAMPLE	166494-013	11	0.49	dry	1%	07/23/03
DUP072303A	SAMPLE	166494-014	12	0.48	dry	1%	07/23/03
LCPSB35 [2]	SAMPLE	166494-016	9.8	0.49	dry	1%	07/23/03
LCPSB32 [1]	SAMPLE	166494-017	13	0.51	dry	1%	07/23/03
LCPSB32 [2]	SAMPLE	166494-018	8.3	0.49	dry	1%	07/23/03
LCPSB30 [1]	SAMPLE	166494-019	14	0.50	dry	2%	07/23/03
LCPSB30 [2]	SAMPLE	166494-020	11	0.49	dry	2%	07/23/03
	BLANK	QC220054	ND	0.50	as received		

ND= Not Detected
RL= Reporting Limit
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Copper			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Batch#:	83120
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled
MGBSB02 [1]	SAMPLE	166494-001	15	0.58	dry	20%	07/22/03
MGBSB02 [2]	SAMPLE	166494-002	16	0.56	dry	12%	07/22/03
MGBSB10 [1]	SAMPLE	166494-004	4.0	0.51	dry	4%	07/22/03
MGBSB10 [2]	SAMPLE	166494-005	6.6	0.48	dry	4%	07/22/03
MGBSB08 [1]	SAMPLE	166494-006	6.7	0.48	dry	2%	07/22/03
MGBSB08 [2]	SAMPLE	166494-007	2.8	0.47	dry	2%	07/22/03
MGBSB09 [1]	SAMPLE	166494-008	5.1	0.52	dry	3%	07/22/03
MGBSB09 [2]	SAMPLE	166494-009	3.0	0.51	dry	2%	07/22/03
MGBSB07 [1]	SAMPLE	166494-010	5.7	0.49	dry	7%	07/22/03
MGBSB07 [2]	SAMPLE	166494-011	9.0	0.53	dry	10%	07/22/03
LCPSB34 [1]	SAMPLE	166494-012	9.5	0.50	dry	3%	07/23/03
LCPSB34 [2]	SAMPLE	166494-013	2.3	0.49	dry	1%	07/23/03
DUP072303A	SAMPLE	166494-014	2.4	0.48	dry	1%	07/23/03
LCPSB35 [2]	SAMPLE	166494-016	9.2	0.49	dry	1%	07/23/03
LCPSB32 [1]	SAMPLE	166494-017	4.6	0.51	dry	1%	07/23/03
LCPSB32 [2]	SAMPLE	166494-018	3.0	0.49	dry	1%	07/23/03
LCPSB30 [1]	SAMPLE	166494-019	3.1	0.50	dry	2%	07/23/03
LCPSB30 [2]	SAMPLE	166494-020	2.5	0.49	dry	2%	07/23/03
	BLANK	QC220054	ND	0.50	as received		

Lead			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	83120
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled
MGSB02 [1]	SAMPLE	166494-001	27	0.18	dry	20%	07/22/03
MGSB02 [2]	SAMPLE	166494-002	25	0.17	dry	12%	07/22/03
MGSB10 [1]	SAMPLE	166494-004	6.8	0.15	dry	4%	07/22/03
MGSB10 [2]	SAMPLE	166494-005	36	0.15	dry	4%	07/22/03
MGSB08 [1]	SAMPLE	166494-006	19	0.14	dry	2%	07/22/03
MGSB08 [2]	SAMPLE	166494-007	0.39	0.14	dry	2%	07/22/03
MGSB09 [1]	SAMPLE	166494-008	19	0.16	dry	3%	07/22/03
MGSB09 [2]	SAMPLE	166494-009	1.6	0.15	dry	2%	07/22/03
MGSB07 [1]	SAMPLE	166494-010	3.0	0.15	dry	2%	07/22/03
MGSB07 [2]	SAMPLE	166494-011	ND	0.16	dry	10%	07/22/03
LCPSB34 [1]	SAMPLE	166494-012	44	0.15	dry	3%	07/23/03
LCPSB34 [2]	SAMPLE	166494-013	0.42	0.15	dry	1%	07/23/03
DUP072303A	SAMPLE	166494-014	0.48	0.14	dry	1%	07/23/03
LCPSB35 [2]	SAMPLE	166494-016	26	0.15	dry	1%	07/23/03
LCPSB32 [1]	SAMPLE	166494-017	7.1	0.15	dry	1%	07/23/03
LCPSB32 [2]	SAMPLE	166494-018	0.80	0.15	dry	1%	07/23/03
LCPSB30 [1]	SAMPLE	166494-019	0.36	0.15	dry	2%	07/23/03
LCPSB30 [2]	SAMPLE	166494-020	0.81	0.15	dry	2%	07/23/03
	BLANK	QC220054	ND	0.15	as received		

ND= Not Detected
RL= Reporting Limit
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Antimony			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Batch#:	83120
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled
MGBSB02 [1]	SAMPLE	166494-001	ND	3.5	dry	20%	07/22/03
MGBSB02 [2]	SAMPLE	166494-002	ND	3.4	dry	12%	07/22/03
MGBSB10 [1]	SAMPLE	166494-004	ND	3.1	dry	4%	07/22/03
MGBSB10 [2]	SAMPLE	166494-005	ND	2.9	dry	4%	07/22/03
MGBSB08 [1]	SAMPLE	166494-006	ND	2.9	dry	2%	07/22/03
MGBSB08 [2]	SAMPLE	166494-007	ND	2.8	dry	2%	07/22/03
MGBSB09 [1]	SAMPLE	166494-008	ND	3.1	dry	3%	07/22/03
MGBSB09 [2]	SAMPLE	166494-009	ND	3.1	dry	2%	07/22/03
MGBSB07 [1]	SAMPLE	166494-010	ND	2.9	dry	7%	07/22/03
MGBSB07 [2]	SAMPLE	166494-011	ND	3.2	dry	10%	07/22/03
LCPSB34 [1]	SAMPLE	166494-012	ND	3.0	dry	3%	07/23/03
LCPSB34 [2]	SAMPLE	166494-013	ND	2.9	dry	1%	07/23/03
DUP072303A	SAMPLE	166494-014	ND	2.9	dry	1%	07/23/03
LCPSB35 [2]	SAMPLE	166494-016	ND	2.9	dry	1%	07/23/03
LCPSB32 [1]	SAMPLE	166494-017	ND	3.0	dry	1%	07/23/03
LCPSB32 [2]	SAMPLE	166494-018	ND	2.9	dry	1%	07/23/03
LCPSB30 [1]	SAMPLE	166494-019	ND	3.0	dry	2%	07/23/03
LCPSB30 [2]	SAMPLE	166494-020	ND	2.9	dry	2%	07/23/03
	BLANK	QC220054	ND	3.0	as received		

Zinc

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Batch#:	83120
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Diln Fac:	1.000	Analyzed:	07/25/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled
MGBS02 [1]	SAMPLE	166494-001	42	1.2	dry	20%	07/22/03
MGBS02 [2]	SAMPLE	166494-002	50	1.1	dry	12%	07/22/03
MGBSB10 [1]	SAMPLE	166494-004	16	1.0	dry	4%	07/22/03
MGBSB10 [2]	SAMPLE	166494-005	29	0.97	dry	4%	07/22/03
MGBSB08 [1]	SAMPLE	166494-006	23	0.96	dry	2%	07/22/03
MGBSB08 [2]	SAMPLE	166494-007	13	0.94	dry	2%	07/22/03
MGBSB09 [1]	SAMPLE	166494-008	24	1.0	dry	3%	07/22/03
MGBSB09 [2]	SAMPLE	166494-009	15	1.0	dry	2%	07/22/03
MGBSB07 [1]	SAMPLE	166494-010	20	0.98	dry	7%	07/22/03
MGBSB07 [2]	SAMPLE	166494-011	24	1.1	dry	10%	07/22/03
LCPSB34 [1]	SAMPLE	166494-012	13	0.99	dry	3%	07/23/03
LCPSB34 [2]	SAMPLE	166494-013	14	0.98	dry	1%	07/23/03
DUP072303A	SAMPLE	166494-014	15	0.95	dry	1%	07/23/03
LCPSB35 [2]	SAMPLE	166494-016	14	0.97	dry	1%	07/23/03
LCPSB32 [1]	SAMPLE	166494-017	15	1.0	dry	1%	07/23/03
LCPSB32 [2]	SAMPLE	166494-018	13	0.98	dry	1%	07/23/03
LCPSB30 [1]	SAMPLE	166494-019	19	1.0	dry	2%	07/23/03
LCPSB30 [2]	SAMPLE	166494-020	14	0.98	dry	2%	07/23/03
	BLANK	QC220054	ND	1.0	as received		



Target Analyte List Metals

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220054	Batch#:	83120
Matrix:	Soil	Prepared:	07/24/03
Units:	mg/Kg	Analyzed:	07/25/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0



Target Analyte List Metals

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC220055

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	970.5	97	75-125
Antimony	100.0	102.0	102	75-125
Arsenic	50.00	47.35	95	75-125
Barium	100.0	93.50	94	75-125
Beryllium	2.500	2.470	99	75-125
Cadmium	10.00	9.300	93	75-125
Chromium	100.0	95.50	96	75-125
Cobalt	25.00	23.65	95	75-125
Copper	12.50	12.80	102	75-125
Iron	1,000	940.5	94	75-125
Lead	100.0	93.50	94	75-125
Magnesium	1,000	976.0	98	75-125
Manganese	25.00	23.80	95	75-125
Nickel	25.00	23.80	95	75-125
Selenium	50.00	43.80	88	75-125
Silver	10.00	9.800	98	75-125
Thallium	50.00	44.45	89	75-125
Vanadium	25.00	24.40	98	75-125
Zinc	25.00	23.10	92	75-125

Type: BSD

Lab ID: QC220056

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	958.5	96	75-125	1	30
Antimony	100.0	102.0	102	75-125	0	30
Arsenic	50.00	46.80	94	75-125	1	30
Barium	100.0	92.00	92	75-125	2	30
Beryllium	2.500	2.440	98	75-125	1	30
Cadmium	10.00	9.200	92	75-125	1	30
Chromium	100.0	94.50	95	75-125	1	30
Cobalt	25.00	23.35	93	75-125	1	30
Copper	12.50	12.70	102	75-125	1	30
Iron	1,000	931.0	93	75-125	1	30
Lead	100.0	94.50	95	75-125	1	30
Magnesium	1,000	966.5	97	75-125	1	30
Manganese	25.00	23.60	94	75-125	1	30
Nickel	25.00	23.50	94	75-125	1	30
Selenium	50.00	44.25	89	75-125	1	30
Silver	10.00	9.750	98	75-125	1	30
Thallium	50.00	43.85	88	75-125	1	30
Vanadium	25.00	24.10	96	75-125	1	30
Zinc	25.00	22.85	91	75-125	1	30



Barium

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220055	100.0	93.50	94	75-125		
BSD	QC220056	100.0	92.00	92	75-125	2	30

Copper			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220055	12.50	12.80	102	75-125		
BSD	QC220056	12.50	12.70	102	75-125	1	30

**Lead**

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220055	100.0	93.50	94	75-125		
BSD	QC220056	100.0	94.50	95	75-125	1	30

**Antimony**

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220055	100.0	102.0	102	75-125		
BSD	QC220056	100.0	102.0	102	75-125	0	30



Zinc			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83120
Units:	mg/Kg	Prepared:	07/24/03
Basis:	as received	Analyzed:	07/25/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220055	25.00	23.10	92	75-125		
BSD	QC220056	25.00	22.85	91	75-125	1	30

Target Analyte List Metals

Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB35 [1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC220057

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	3,403	990.3	4,477	108	75-125
Antimony	<0.3939	99.03	38.97	39 *	75-125
Arsenic	2.185	49.51	42.34	81	75-125
Barium	10.60	99.03	94.57	85	75-125
Beryllium	0.03115	2.476	2.243	89	75-125
Cadmium	0.6801	9.903	8.764	82	75-125
Chromium	20.00	99.03	104.0	85	75-125
Cobalt	3.885	24.76	24.56	84	75-125
Copper	29.35	12.38	38.42	73 *	75-125
Iron	6,326	990.3	7,789 >LR	148 NM	75-125
Lead	58.01	99.03	137.7	80	75-125
Magnesium	1,622	990.3	2,559	95	75-125
Manganese	114.0	24.76	137.7	95 NM	75-125
Nickel	29.80	24.76	45.60	64 *	75-125
Selenium	0.5651	49.51	37.93	75	75-125
Silver	<0.02727	9.903	8.566	87	75-125
Thallium	<0.1515	49.51	38.32	77	75-125
Vanadium	14.80	24.76	36.99	90	75-125
Zinc	15.40	24.76	35.06	79	75-125

Type: MSD
Lab ID: QC220058

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	990.3	4,230	84	75-125	6	30
Antimony	99.03	37.88	38 *	75-125	3	30
Arsenic	49.51	40.45	77	75-125	5	30
Barium	99.03	88.63	79	75-125	6	30
Beryllium	2.476	2.169	86	75-125	3	30
Cadmium	9.903	8.368	78	75-125	5	30
Chromium	99.03	98.53	79	75-125	5	30
Cobalt	24.76	23.52	79	75-125	4	30
Copper	12.38	40.85	93	75-125	6	30
Iron	990.3	6,902 >LR	58 NM	75-125	NC	30
Lead	99.03	132.2	75	75-125	4	30
Magnesium	990.3	2,424	81	75-125	5	30
Manganese	24.76	128.7	59 NM	75-125	7	30
Nickel	24.76	43.28	54 *	75-125	5	30
Selenium	49.51	36.59	73 *	75-125	4	30
Silver	9.903	8.269	84	75-125	4	30
Thallium	49.51	37.19	75	75-125	3	30
Vanadium	24.76	35.11	82	75-125	5	30
Zinc	24.76	33.62	74 *	75-125	4	30

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

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Barium			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCPSB35 [1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220057	10.60	99.03	94.57	85	75-125	1%		
MSD	QC220058		99.03	88.63	79	75-125	1%	6	30

Copper			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCPSB35 [1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220057	29.35	12.38	38.42	73 *	75-125	1%		
MSD	QC220058		12.38	40.85	93	75-125	1%	6	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1



Lead			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCPSB35[1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220057	58.01	99.03	137.7	80	75-125	1%		
MSD	QC220058		99.03	132.2	75	75-125	1%	4	30

Antimony			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCPSB35[1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220057	<0.3939	99.03	38.97	39 *	75-125	1%		
MSD	QC220058		99.03	37.88	38 *	75-125	1%	3	30



Zinc			
Lab #:	166494	Location:	Presidio MOB
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCPSB35 [1]	Batch#:	83120
MSS Lab ID:	166494-015	Sampled:	07/23/03
Matrix:	Soil	Received:	07/23/03
Units:	mg/Kg	Prepared:	07/24/03
Basis:	dry	Analyzed:	07/25/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220057	15.40	24.76	35.06	79	75-125	1%		
MSD	QC220058		24.76	33.62	74 *	75-125	1%	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73297038009
Filename : tr211344
IDF : 1.0
PDF : 49.50495
Run type : MSS
Samplenum: 166494-015
Matrix : Soil
Batchnum : 83120
Inj : 25-JUL-2003 08:04
Units : mg/Kg

Instid : MET07
Seqnum : 73297038010
Filename : tr211345
IDF : 5.0
PDF : 49.50495
Run type : SER
Samplenum: QC220130
Matrix : Soil
Batchnum : 83120
Inj : 25-JUL-2003 08:12

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3370	4.95	3330	24.8	1	10		u
Antimony	ND	2.97	ND	14.9	--	10		u
Arsenic	2.16	0.248	2.22	1.24	--	10		u
Barium	10.5	0.495	10.4	2.48	1	10		u
Beryllium	ND	0.0990	ND	0.495	--	10		u
Cadmium	0.673	0.248	ND	1.24	--	10		u
Calcium	2010	24.8	2050	124	2	10		u
Chromium	19.8	0.495	20.4	2.48	3	10		u
Cobalt	3.85	0.990	ND	4.95	--	10		u
Copper	29.1	0.495	27.7	2.48	5	10		u
Iron	*** usable MSS data not found ***							
Lead	57.4	0.149	56.4	0.743	2	10		u
Magnesium	1610	24.8	1630	124	2	10		u
Manganese	113	0.495	115	2.48	2	10		u
Molybdenum	ND	0.990	ND	4.95	--	10		u
Nickel	29.5	0.990	30.0	4.95	2	10		u
Selenium	0.559	0.248	ND	1.24	--	10		u
Silver	ND	0.248	ND	1.24	--	10		u
Thallium	ND	0.248	ND	1.24	--	10		u
Vanadium	14.7	0.495	14.6	2.48	1	10		u
Zinc	15.2	0.990	16.7	4.95	10	10		u
Titanium	218	0.495	218	2.48	0	10		u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73297038011	Seqnum : 73297038012
Filename : tr211346	Filename : tr211347
IDF : 5.0	IDF : 25.0
PDF : 49.50495	PDF : 49.50495
Run type : MSS	Run type : SER
Samplenum: 166494-015	Samplenum: QC220130
Matrix : Soil	Matrix : Soil
Batchnum : 83120	Batchnum : 83120
Inj : 25-JUL-2003 08:17	Inj : 25-JUL-2003 08:21
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	3320	24.8	3130	124	6	10	
Antimony	ND	14.9	ND	74.3	--	10	
Arsenic	3.12	1.24	ND	6.19	--	10	
Barium	10.3	2.48	ND	12.4	--	10	
Beryllium	ND	0.495	ND	2.48	--	10	
Cadmium	ND	1.24	ND	6.19	--	10	
Calcium	2030	124	1960	619	4	10	
Chromium	19.8	2.48	17.7	12.4	--	10	
Cobalt	ND	4.95	ND	24.8	--	10	
Copper	27.5	2.48	23.8	12.4	14	10	f
Iron	6260	24.8	6110	124	2	10	u
Lead	56.7	0.743	53.3	3.71	6	10	
Magnesium	1620	124	1580	619	3	10	
Manganese	114	2.48	111	12.4	3	10	
Molybdenum	ND	4.95	ND	24.8	--	10	
Nickel	29.7	4.95	28.2	24.8	--	10	
Selenium	ND	1.24	6.34	6.19	--	10	
Silver	ND	1.24	ND	6.19	--	10	
Thallium	ND	1.24	ND	6.19	--	10	
Vanadium	14.4	2.48	13.6	12.4	--	10	
Zinc	16.6	4.95	ND	24.8	--	10	
Titanium	217	2.48	218	12.4	0	10	

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73297038017
Filename : tr211352
IDF : 1.0
PDF : 49.50495
Run type : PDS
Samplenum: QC220155
Matrix : Soil
Batchnum : 83120
Inj : 25-JUL-2003 08:45
Units : ug/L

MSS : 166494-015

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73297038009	68050	20000	85300 86	15-150	u
Antimony	73297038009	ND	2000	1980 99	15-123	u
Arsenic	73297038009	43.70	1000	1010 97	40-126	u
Barium	73297038009	212.0	2000	2080 93	19-138	u
Beryllium	73297038009	0.6230	50	52.40 104	58-120	u
Cadmium	73297038009	13.60	200	200.0 93	47-120	u
Calcium	73297038009	40640	20000	61670 105	16-150	u
Chromium	73297038009	400.0	2000	2320 96	35-131	u
Cobalt	73297038009	77.70	500	557.0 96	39-120	u
Copper	73297038009	587.0	250	844.0 103	32-150	u
Iron	73297038011	25300	20000	140700 >LR 71	15-150	:>u
Lead	73297038009	1160	2000	3060 95	23-137	u
Magnesium	73297038009	32440	20000	51940 98	20-150	u
Manganese	73297038009	2280	500	2700 84	15-150	:u
Molybdenum	73297038009	3.650	400	408.0 101	28-120	u
Nickel	73297038009	596.0	500	1050 91	32-136	u
Selenium	73297038009	11.30	1000	917.0 91	38-120	u
Silver	73297038009	ND	200	203.0 102	55-120	u
Thallium	73297038009	ND	1000	913.0 91	50-120	u
Vanadium	73297038009	296.0	500	785.0 98	25-130	u
Zinc	73297038009	308.0	500	764.0 91	20-147	u
Titanium	73297038009	4410	1000	5330 92	15-150	:u

: =recovery not meaningful >=>LR u=use

Method: 6010B Standard: blank
 Run Time: 07/25/03 06:22:22

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.126	.001	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	164.	46.5	59.3	1.48	.095	29.2	6.20
#1	-.002	.001	-.001	.001	-.126	.001	.000
#2	.000	.001	-.000	.001	-.126	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.002	-.000	.000	.001	-.001
SDev	.000	.000	.000	.000	.000	.000	.001
%RSD	120.	10.9	.870	72.2	76.9	7.07	56.1
#1	-.000	-.003	.002	-.001	.000	.001	-.002
#2	-.000	-.002	.002	-.000	.000	.001	-.001
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0353	-.0060
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	31.6	52.8	96.2	23.3	.698	.2434	.3886
#1	.001	.000	-.000	.000	.006	.0353	-.0060
#2	.001	.001	-.001	.001	.006	.0354	-.0060
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0008	.0000	.000	.073			
SDev	.0000	.0000	.000	.000			
%RSD	2.299	28.07	70.5	.406			
#1	-.0008	.0000	.000	.072			
#2	-.0008	.0000	.000	.073			

Method: 6010B Standard: cst hi
 Run Time: 07/25/03 06:29:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.192	.108	.044	5.65	.776	.256	.062
SDev	.009	.005	.000	.01	.001	.001	.000
%RSD	4.52	4.47	.384	.128	.101	.197	.174
#1	.186	.105	.044	5.65	.775	.256	.062
#2	.199	.112	.044	5.64	.776	.257	.063
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.170	.153	.194	.175	.335	.440	.050
SDev	.000	.000	.001	.000	.000	.001	.000
%RSD	.058	.155	.615	.127	.017	.146	.334
#1	.170	.153	.195	.175	.335	.439	.050
#2	.170	.154	.193	.175	.335	.440	.050
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.057	.095	.030	.245	.040	.0679	.0787
SDev	.000	.000	.000	.000	.000	.0001	.0002
%RSD	.253	.194	.006	.065	.147	.1926	.1993
#1	.057	.095	.030	.245	.040	.0680	.0785
#2	.057	.096	.030	.245	.040	.0678	.0788
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0323	.0480	.281	2.22			
SDev	.0001	.0001	.000	.00			
%RSD	.3887	.1411	.027	.008			
#1	.0322	.0480	.281	2.22			
#2	.0324	.0481	.281	2.22			

ethod: 6010B

Slope = Conc(SIR)/IR

lement	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
b2068	206.831	Multiple	Standards	5152.90	3.60125	07/25/03 06:29:23
b206A	206.832	Multiple	Standards	9121.50	-6.93364	07/25/03 06:29:23
as1890	189.042	Multiple	Standards	11243.1	4.27380	07/25/03 06:29:23
ba4934	493.409	Multiple	Standards	177.056	-.138188	07/25/03 06:29:23
be3130	313.042	Multiple	Standards	107.165	13.4879	07/25/03 06:29:23
bd2265	226.502	Multiple	Standards	391.407	-.389153	07/25/03 06:29:23
br2677	267.716	Multiple	Standards	3221.07	-.978804	07/25/03 06:29:23
bo2286	228.616	Multiple	Standards	2942.44	.264554	07/25/03 06:29:23
bu3247	324.754	Multiple	Standards	1281.02	3.39276	07/25/03 06:29:23
pb2203	220.351	Multiple	Standards	2599.64	-4.63236	07/25/03 06:29:23
pb220A	220.352	Multiple	Standards	2826.80	1.03562	07/25/03 06:29:23
mo2020	202.030	Multiple	Standards	2986.14	-.722487	07/25/03 06:29:23
ni2316	231.604	Multiple	Standards	1137.53	-.974300	07/25/03 06:29:23
se1960	196.021	Multiple	Standards	9695.22	13.7360	07/25/03 06:29:23
se196A	196.022	Multiple	Standards	8940.83	-9.87679	07/25/03 06:29:23
ag3280	328.068	Multiple	Standards	1052.60	-.465004	07/25/03 06:29:23
tl1908	190.864	Multiple	Standards	16297.6	7.75843	07/25/03 06:29:23
v_2924	292.402	Multiple	Standards	2045.16	-1.01676	07/25/03 06:29:23
zn2138	213.856	Multiple	Standards	3096.23	-19.6311	07/25/03 06:29:23
al3082	308.215	Multiple	Standards	31109.3	-1099.03	07/25/03 06:29:23
ca3179	317.933	Multiple	Standards	23617.0	142.401	07/25/03 06:29:23
fe2714	271.441	Multiple	Standards	31509.3	24.3736	07/25/03 06:29:23
mg2790	279.079	Multiple	Standards	41643.7	-1.43765	07/25/03 06:29:23
mn2576	257.610	Multiple	Standards	355.786	-.088393	07/25/03 06:29:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/25/03 06:29:23
Ti3349	334.941	Multiple	Standards	466.157	-33.8220	07/25/03 06:29:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038001

Run Name :
Filename : tr211336

Injected : 25-JUL-2003 06:38
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	1007.000	ug/L	1	5	
Antimony	1000.000	956.0000	ug/L	-4	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	998.0000	ug/L	0	5	
Beryllium	100.0000	98.60000	ug/L	-1	5	
Cadmium	100.0000	99.10000	ug/L	-1	5	
Calcium	2000.000	1966.000	ug/L	-2	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	495.0000	ug/L	-1	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	981.6000	ug/L	-2	5	
Lead	500.0000	499.0000	ug/L	0	5	
Magnesium	2000.000	1981.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	1030.000	ug/L	3	5	
Nickel	500.0000	497.0000	ug/L	-1	5	
Selenium	500.0000	502.0000	ug/L	0	5	
Silver	100.0000	99.40000	ug/L	-1	5	
Thallium	500.0000	503.0000	ug/L	1	5	
Titanium	1000.000	994.0000	ug/L	-1	5	
Vanadium	500.0000	495.0000	ug/L	-1	5	
Zinc	100.0000	98.80000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038002

Run Name :
Filename : tr211337

Injected : 25-JUL-2003 06:48
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	494.3000	ug/L	-1	10	
Antimony	500.0000	506.0000	ug/L	1	10	
Arsenic	250.0000	260.0000	ug/L	4	10	
Barium	500.0000	499.0000	ug/L	0	10	
Beryllium	50.00000	50.30000	ug/L	1	10	
Cadmium	50.00000	49.20000	ug/L	-2	10	
Calcium	1000.000	980.8000	ug/L	-2	10	
Chromium	100.0000	99.90000	ug/L	0	10	
Cobalt	250.0000	252.0000	ug/L	1	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	482.8000	ug/L	-3	10	
Lead	250.0000	249.0000	ug/L	0	10	
Magnesium	1000.000	1029.000	ug/L	3	10	
Manganese	50.00000	50.10000	ug/L	0	10	
Molybdenum	500.0000	505.0000	ug/L	1	10	
Nickel	250.0000	256.0000	ug/L	2	10	
Selenium	250.0000	245.0000	ug/L	-2	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	246.0000	ug/L	-2	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	252.0000	ug/L	1	10	
Zinc	50.00000	51.40000	ug/L	3	10	

[illegible]

Injected : 25-JUL-2003 07:37
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	79.77000	ug/L	-20	50
Antimony	60.00000	58.50000	ug/L	-3	50
Arsenic	5.000000	3.400000	ug/L	-32	50
Barium	10.00000	9.510000	ug/L	-5	50
Beryllium	2.000000	1.490000	ug/L	-26	50
Cadmium	5.000000	4.320000	ug/L	-14	50
Chromium	10.00000	8.330000	ug/L	-17	50
Cobalt	20.00000	18.30000	ug/L	-9	50
Copper	10.00000	6.950000	ug/L	-31	50
Iron	100.0000	79.88000	ug/L	-20	50
Lead	3.000000	2.880000	ug/L	-4	50
Manganese	10.00000	9.500000	ug/L	-5	50
Molybdenum	20.00000	17.10000	ug/L	-15	50
Nickel	20.00000	18.90000	ug/L	-6	50
Selenium	5.000000	6.510000	ug/L	30	50
Silver	5.000000	4.990000	ug/L	0	50
Thallium	5.000000	4.630000	ug/L	-7	50
Vanadium	10.00000	9.570000	ug/L	-4	50
Zinc	20.00000	20.60000	ug/L	3	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038013

Run Name :
Filename : tr211348

Injected : 25-JUL-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	472.0000	ug/L	-6	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	52.80000	ug/L	6	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	1087.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	497.2000	ug/L	-1	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.50000	ug/L	1	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.20000	ug/L	2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	51.80000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038025

Run Name :
Filename : tr211360

Injected : 25-JUL-2003 09:26
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.4000	ug/L	-4	10	
Antimony		750.0000	727.0000	ug/L	-3	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1488.000	ug/L	-1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	755.0000	ug/L	1	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1508.000	ug/L	1	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	761.0000	ug/L	1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	370.0000	ug/L	-1	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038037

Run Name :
Filename : tr211372

Injected : 25-JUL-2003 10:25
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.1000	ug/L	-2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	52.30000	ug/L	5	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	977.9000	ug/L	-2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	512.1000	ug/L	2	10	
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	52.00000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038048

Run Name :
Filename : tr211383

Injected : 25-JUL-2003 11:20
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	788.7000	ug/L	5	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	737.0000	ug/L	-2	10	
Beryllium		75.00000	78.20000	ug/L	4	10	
Cadmium		75.00000	75.80000	ug/L	1	10	
Calcium		1500.000	1430.000	ug/L	-5	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	377.0000	ug/L	1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	750.1000	ug/L	0	10	
Lead		375.0000	390.0000	ug/L	4	10	
Magnesium		1500.000	1532.000	ug/L	2	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	777.0000	ug/L	4	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	388.0000	ug/L	3	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	378.0000	ug/L	1	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	77.20000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038060

Run Name :
Filename : tr211395

Injected : 25-JUL-2003 12:32
Caltpe :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	261.8000	ug/L	5	10	
Antimony		250.0000	273.0000	ug/L	9	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	247.0000	ug/L	-1	10	
Beryllium		25.00000	25.70000	ug/L	3	10	
Cadmium		25.00000	24.60000	ug/L	-2	10	
Calcium		500.0000	482.9000	ug/L	-3	10	
Chromium		50.00000	49.00000	ug/L	-2	10	
Cobalt		125.0000	124.0000	ug/L	-1	10	
Copper		50.00000	47.70000	ug/L	-5	10	
Iron		250.0000	227.5000	ug/L	-9	10	
Lead		125.0000	123.0000	ug/L	-2	10	
Magnesium		500.0000	511.3000	ug/L	2	10	
Manganese		25.00000	24.40000	ug/L	-2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	126.0000	ug/L	1	10	
Selenium		125.0000	127.0000	ug/L	2	10	
Silver		25.00000	25.10000	ug/L	0	10	
Thallium		125.0000	123.0000	ug/L	-2	10	
Titanium		250.0000	262.0000	ug/L	5	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	27.40000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73297038072

Run Name :
Filename : tr211407

Injected : 25-JUL-2003 13:34
Caltype :

standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	525.4000	ug/L	5		10	
Antimony		500.0000	483.0000	ug/L	-3		10	
Arsenic		250.0000	259.0000	ug/L	4		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	51.30000	ug/L	3		10	
Cadmium		50.00000	49.30000	ug/L	-1		10	
Calcium		1000.000	1063.000	ug/L	6		10	
Chromium		100.0000	98.50000	ug/L	-2		10	
Cobalt		250.0000	244.0000	ug/L	-2		10	
Copper		100.0000	96.50000	ug/L	-4		10	
Iron		500.0000	477.7000	ug/L	-4		10	
Lead		250.0000	247.0000	ug/L	-1		10	
Magnesium		1000.000	1006.000	ug/L	1		10	
Manganese		50.00000	47.70000	ug/L	-5		10	
Molybdenum		500.0000	494.0000	ug/L	-1		10	
Nickel		250.0000	254.0000	ug/L	2		10	
Selenium		250.0000	245.0000	ug/L	-2		10	
Silver		50.00000	49.90000	ug/L	0		10	
Thallium		250.0000	264.0000	ug/L	6		10	
Titanium		500.0000	504.0000	ug/L	1		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038084

Run Name :
Filename : tr211419

Injected : 25-JUL-2003 14:18
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	736.6000	ug/L	-2	10	
Antimony		750.0000	699.0000	ug/L	-7	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	719.0000	ug/L	-4	10	
Beryllium		75.00000	74.90000	ug/L	0	10	
Cadmium		75.00000	71.10000	ug/L	-5	10	
Calcium		1500.000	1531.000	ug/L	2	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	361.0000	ug/L	-4	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	718.4000	ug/L	-4	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1475.000	ug/L	-2	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	718.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	357.0000	ug/L	-5	10	
Silver		75.00000	73.20000	ug/L	-2	10	
Thallium		375.0000	351.0000	ug/L	-6	10	
Titanium		750.0000	738.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	72.90000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038096

Run Name :
Filename : tr211431

Injected : 25-JUL-2003 15:11
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.0000	ug/L	2	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	52.10000	ug/L	4	10	
Cadmium		50.00000	49.60000	ug/L	-1	10	
Calcium		1000.000	1092.000	ug/L	9	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	96.20000	ug/L	-4	10	
Iron		500.0000	501.3000	ug/L	0	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	52.40000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73297038108

Run Name :
Filename : tr211443

Injected : 25-JUL-2003 15:55
Caltpe :

standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	766.3000	ug/L	2	10	
Antimony		750.0000	724.0000	ug/L	-3	10	
Arsenic		375.0000	395.0000	ug/L	5	10	
Barium		750.0000	760.0000	ug/L	1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	75.40000	ug/L	1	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	727.1000	ug/L	-3	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1520.000	ug/L	1	10	
Manganese		75.00000	71.80000	ug/L	-4	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	73.70000	ug/L	-2	10	
Thallium		375.0000	369.0000	ug/L	-2	10	
Titanium		750.0000	760.0000	ug/L	1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	76.90000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038120

Run Name :
Filename : tr211456

Injected : 25-JUL-2003 16:54
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.0000	ug/L	-5	10	
Antimony		500.0000	519.0000	ug/L	4	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	961.2000	ug/L	-4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	96.70000	ug/L	-3	10	
Iron		500.0000	504.7000	ug/L	1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1016.000	ug/L	2	10	
Manganese		50.00000	49.40000	ug/L	-1	10	
Molybdenum		500.0000	492.0000	ug/L	-2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	50.80000	ug/L	2	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	52.10000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038003
Filename: tr211338

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 25-JUL-2003 06:53

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<	RL
Antimony	[3.0800]	60.00000	ug/L	<	RL	
Arsenic	[1.8000]	5.000000	ug/L	<	RL	
Barium	[0.1370]	10.00000	ug/L	<	RL	
Beryllium		ND	2.000000	ug/L	<	RL
Cadmium		ND	5.000000	ug/L	<	RL
Calcium		ND	500.0000	ug/L	<	RL
Chromium		ND	10.00000	ug/L	<	RL
Cobalt		ND	10.00000	ug/L	<	RL
Copper		ND	10.00000	ug/L	<	RL
Iron		ND	100.0000	ug/L	<	RL
Lead		ND	3.000000	ug/L	<	RL
Magnesium	[6.5060]	500.0000	ug/L	<	RL	
Manganese		ND	10.00000	ug/L	<	RL
Molybdenum	[3.9400]	20.00000	ug/L	<	RL	
Nickel		ND	20.00000	ug/L	<	RL
Selenium		ND	5.000000	ug/L	<	RL
Silver		ND	5.000000	ug/L	<	RL
Thallium		ND	5.000000	ug/L	<	RL
Titanium	[6.3100]	10.00000	ug/L	<	RL	
Vanadium		ND	10.00000	ug/L	<	RL
Zinc	[1.5500]	20.00000	ug/L	<	RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73297038014
Filename: tr211349

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 08:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[5.4350]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1000]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[5.9330]	100.0000	ug/L	<RL		
Lead	[0.7710]	3.000000	ug/L	<RL		
Magnesium	[6.1790]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[3.6900]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[2.6500]	5.000000	ug/L	<RL		
Silver	[0.6100]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.1600]	10.00000	ug/L	<RL		
Vanadium	[0.1100]	10.00000	ug/L	<RL		
Zinc	[2.1800]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038026
Filename: tr211361

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 09:35

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1610]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[8.0250]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[9.0610]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[2.8400]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[3.0000]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[7.7900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[2.2600]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038038
Filename: tr211373

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 10:29

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[8.4260]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1340]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2270]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.380]	100.0000	ug/L	<RL	
Lead	[0.0500]	3.000000	ug/L	<RL	
Magnesium	[4.2040]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.7900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1750]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.9200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.3100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73297038049
Filename: tr211384

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 11:25

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.7730]	100.0000	ug/L	<RL		
Antimony	[5.0000]	60.00000	ug/L	<RL		
Arsenic	[3.5600]	5.000000	ug/L	<RL		
Barium	[0.1850]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[1.8440]	500.0000	ug/L	<RL		
Chromium	[0.3040]	10.00000	ug/L	<RL		
Cobalt	[0.3100]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.2340]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[4.3100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[4.5700]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.9800]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[6.2600]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038061
Filename: tr211396

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 12:46

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[28.230]	100.0000	ug/L	<RL		
Antimony	[5.1200]	60.00000	ug/L	<RL		
Arsenic	[4.7600]	5.000000	ug/L	<RL		
Barium	[0.2690]	10.00000	ug/L	<RL		
Beryllium	[0.7170]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[10.220]	100.0000	ug/L	<RL		
Lead	[2.1900]	3.000000	ug/L	<RL		
Magnesium	[10.960]	500.0000	ug/L	<RL		
Manganese	[0.0370]	10.00000	ug/L	<RL		
Molybdenum	[4.3600]	20.00000	ug/L	<RL		
Nickel	[0.2650]	20.00000	ug/L	<RL		
Selenium	[1.5100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[8.2600]	10.00000	ug/L	<RL		
Vanadium	[0.1400]	10.00000	ug/L	<RL		
Zinc	[5.5900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038073
Filename: tr211408

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 13:37

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[74.720]	100.0000	ug/L	<RL		
Antimony	[5.6300]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2250]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[17.570]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0750]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[0.2779]	100.0000	ug/L	<RL		
Lead	[1.1000]	3.000000	ug/L	<RL		
Magnesium	[12.440]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[7.3800]	20.00000	ug/L	<RL		
Nickel	[0.4710]	20.00000	ug/L	<RL		
Selenium	[4.9900]	5.000000	ug/L	<RL		
Silver	[0.3450]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[8.6400]	10.00000	ug/L	<RL		
Vanadium	[1.2200]	10.00000	ug/L	<RL		
Zinc	[5.4800]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038085
Filename: tr211420

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 14:25

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[42.800]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2660]		10.00000	ug/L	<	RL
Beryllium	[0.0660]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[15.410]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.8060]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[7.3000]		20.00000	ug/L	<	RL
Nickel	[0.5180]		20.00000	ug/L	<	RL
Selenium	[4.2000]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[9.7900]		10.00000	ug/L	<	RL
Vanadium	[0.7910]		10.00000	ug/L	<	RL
Zinc	[3.3700]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038097
Filename: tr211432

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 15:15

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[45.690]	100.0000	ug/L	<RL	
Antimony	[9.1800]	60.00000	ug/L	<RL	
Arsenic	[4.3500]	5.000000	ug/L	<RL	
Barium	[0.0860]	10.00000	ug/L	<RL	
Beryllium	[1.2000]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[40.000]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[1.9680]	100.0000	ug/L	<RL	
Lead	[0.0290]	3.000000	ug/L	<RL	
Magnesium	[17.180]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[6.7100]	20.00000	ug/L	<RL	
Nickel	[1.1300]	20.00000	ug/L	<RL	
Selenium	[1.9800]	5.000000	ug/L	<RL	
Silver	[0.0690]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.2300]	10.00000	ug/L	<RL	
Vanadium	[1.7700]	10.00000	ug/L	<RL	
Zinc	[3.7900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73297038109
Filename: tr211444

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 16:01

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[55.160]	100.0000	ug/L	<RL		
Antimony	[5.8400]	60.00000	ug/L	<RL		
Arsenic	[1.9700]	5.000000	ug/L	<RL		
Barium	[0.1040]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.3590]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[0.7679]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[11.100]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[4.3000]	20.00000	ug/L	<RL		
Nickel	[0.0670]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.0200]	10.00000	ug/L	<RL		
Vanadium	[0.2310]	10.00000	ug/L	<RL		
Zinc	[3.8100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73297038121
Filename: tr211457

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 25-JUL-2003 17:04

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[22.730]	100.0000	ug/L	<RL	
Antimony	[24.000]	60.00000	ug/L	<RL	
Arsenic	[0.7990]	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	[1.2600]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2510]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.5700]	3.000000	ug/L	<RL	
Magnesium	[8.6450]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5400]	10.00000	ug/L	<RL	
Vanadium	[0.0390]	10.00000	ug/L	<RL	
Zinc	[4.7500]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038005

Run Name :
Filename : tr211340

Injected : 25-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	544000.0	ug/L	9		
Antimony	500.0000	457.0000	ug/L	-9	20	
Arsenic	500.0000	526.0000	ug/L	5	20	
Barium	500.0000	504.0000	ug/L	1	20	
Beryllium	500.0000	508.0000	ug/L	2	20	
Cadmium	1000.000	941.0000	ug/L	-6	20	
Calcium	500000.0	504900.0	ug/L	1		
Chromium	500.0000	474.0000	ug/L	-5	20	
Cobalt	500.0000	476.0000	ug/L	-5	20	
Copper	500.0000	558.0000	ug/L	12	20	
Iron	200000.0	183300.0	ug/L	-8		
Lead	1000.000	852.0000	ug/L	-15	20	
Magnesium	500000.0	526400.0	ug/L	5		
Manganese	500.0000	491.0000	ug/L	-2	20	
Molybdenum	500.0000	481.0000	ug/L	-4	20	
Nickel	1000.000	1020.000	ug/L	2	20	
Selenium	500.0000	515.0000	ug/L	3	20	
Silver	1000.000	1080.000	ug/L	8	20	
Thallium	500.0000	456.0000	ug/L	-9	20	
Titanium	20000.00	2070.000	ug/L	-90		
Vanadium	500.0000	495.0000	ug/L	-1	20	
Zinc	1000.000	986.0000	ug/L	-1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73297038122

Run Name :
Filename : tr211458

Injected : 25-JUL-2003 17:08
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	532200.0	ug/L	6			
Antimony	500.0000	520.0000	ug/L	4	20		
Arsenic	500.0000	545.0000	ug/L	9	20		
Barium	500.0000	522.0000	ug/L	4	20		
Beryllium	500.0000	496.0000	ug/L	-1	20		
Cadmium	1000.000	974.0000	ug/L	-3	20		
Calcium	500000.0	484200.0	ug/L	-3			
Chromium	500.0000	482.0000	ug/L	-4	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	559.0000	ug/L	12	20		
Iron	200000.0	186800.0	ug/L	-7			
Lead	1000.000	902.0000	ug/L	-10	20		
Magnesium	500000.0	527100.0	ug/L	5			
Manganese	500.0000	492.0000	ug/L	-2	20		
Molybdenum	500.0000	496.0000	ug/L	-1	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	541.0000	ug/L	8	20		
Silver	1000.000	1060.000	ug/L	6	20		
Thallium	500.0000	468.0000	ug/L	-6	20		
Titanium	20000.00	2260.000	ug/L	-89			
Vanadium	500.0000	500.0000	ug/L	0	20		
Zinc	1000.000	985.0000	ug/L	-2	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038

Instrument: MET07

TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211336	CS				25-JUL-2003	06:38 1.0	1.0				1	
002	tr211337	ICV				25-JUL-2003	06:48 1.0	1.0				2	
003	tr211338	ICB				25-JUL-2003	06:53 1.0	1.0				3	
004	tr211339	CRI				25-JUL-2003	07:37 1.0	1.0				4	4:AL=544000
005	tr211340	ICSAB				25-JUL-2003	07:45 1.0	1.0					
006	tr211341	BLANK	QC220054			25-JUL-2003	07:51 1.0	50.0					
007	tr211342	BS	QC220055			25-JUL-2003	07:55 1.0	50.0					
008	tr211343	BSD	QC220056			25-JUL-2003	07:59 1.0	50.0					1:FE=125200
009	tr211344	MSS	166494-015			25-JUL-2003	08:04 1.0	49.50495	1				
010	tr211345	SER	QC220130			25-JUL-2003	08:12 5.0	49.50495					
011	tr211346	MSS	166494-015			25-JUL-2003	08:17 5.0	49.50495					
012	tr211347	SER	QC220130			25-JUL-2003	08:21 25.0	49.50495				5	
013	tr211348	CCV				25-JUL-2003	08:26 1.0	1.0					
014	tr211349	CCB				25-JUL-2003	08:33 1.0	1.0					1:FE=157300
015	tr211350	MS	QC220057			25-JUL-2003	08:37 1.0	49.01961					1:FE=139400
016	tr211351	MSD	QC220058			25-JUL-2003	08:41 1.0	49.01961				6	1:FE=140700
017	tr211352	PDS	QC220155			25-JUL-2003	08:45 1.0	49.50495					2:FE=245000
018	tr211353	SAMPLE	166494-001			25-JUL-2003	08:51 1.0	46.72897	1				3:FE=272600
019	tr211354	SAMPLE	166494-002			25-JUL-2003	08:54 1.0	49.50495					1:FE=159800
020	tr211355	SAMPLE	166494-004			25-JUL-2003	08:58 1.0	49.01961					2:FE=152000
021	tr211356	SAMPLE	166494-005			25-JUL-2003	09:02 1.0	46.51163					1:FE=164900
022	tr211357	SAMPLE	166494-006			25-JUL-2003	09:06 1.0	47.16981					2:FE=192000
023	tr211358	SAMPLE	166494-007			25-JUL-2003	09:10 1.0	45.87156	1				1:FE=164900
024	tr211359	SAMPLE	166494-008			25-JUL-2003	09:14 1.0	50.25126					1:FE=158500
025	tr211360	CCV				25-JUL-2003	09:26 1.0	1.0				8	
026	tr211361	CCB				25-JUL-2003	09:35 1.0	1.0					2:FE=234700
027	tr211362	SAMPLE	166494-001			25-JUL-2003	09:39 1.0	46.72897					1:FE=160500
028	tr211363	SAMPLE	166494-007			25-JUL-2003	09:44 1.0	45.87156					1:FE=149500
029	tr211364	SAMPLE	166494-009			25-JUL-2003	09:48 1.0	50.0					2:FE=266600
030	tr211365	SAMPLE	166494-010			25-JUL-2003	09:52 1.0	45.66210					3:FE=449900
031	tr211366	SAMPLE	166494-011			25-JUL-2003	09:56 1.0	47.39336					1:FE=130900
032	tr211367	SAMPLE	166494-012			25-JUL-2003	10:00 1.0	48.07692					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei Wu Date: 7/25/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038 Instrument: MET07 TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used
033	tr211368	SAMPLE	166494-013	83120	Soil	25-JUL-2003	10:04 1.0	48.30918				1:FE=127700	>LR
034	tr211369	SAMPLE	166494-014	83120	Soil	25-JUL-2003	10:07 1.0	47.16981				1:FE=136300	
035	tr211370	SAMPLE	166494-016	83120	Soil	25-JUL-2003	10:11 1.0	48.07692				1:FE=131000	
036	tr211371	SAMPLE	166494-017	83120	Soil	25-JUL-2003	10:15 1.0	50.0				1:FE=121900	
037	tr211372	CCV				25-JUL-2003	10:25 1.0	1.0					
038	tr211373	CCB				25-JUL-2003	10:29 1.0	1.0					
039	tr211374	SAMPLE	166488-001	83120	Miscel	25-JUL-2003	10:33 50.0	48.07692	1			1:CU=88000.0	
040	tr211375	SAMPLE	166488-001	83120	Miscel	25-JUL-2003	10:37 500.0	48.07692				1:FE=127100	
041	tr211376	SAMPLE	166494-013	83120	Soil	25-JUL-2003	10:41 1.0	48.30918				1:FE=135400	
042	tr211377	SAMPLE	166494-018	83120	Soil	25-JUL-2003	10:45 1.0	48.54369				1:FE=146700	
043	tr211378	SAMPLE	166494-019	83120	Soil	25-JUL-2003	10:49 1.0	49.01961				1:FE=141300	
044	tr211379	SAMPLE	166494-020	83120	Soil	25-JUL-2003	10:53 1.0	48.07692					
045	tr211380	BLANK	QC220088	83128	Water	25-JUL-2003	11:00 1.0	1.0					
046	tr211381	BS	QC220089	83128	Water	25-JUL-2003	11:04 1.0	1.0					
047	tr211382	BSD	QC220090	83128	Water	25-JUL-2003	11:08 1.0	1.0					
048	tr211383	CCV				25-JUL-2003	11:20 1.0	1.0					
049	tr211384	CCB				25-JUL-2003	11:25 1.0	1.0					
050	tr211385	MSS	166471-001	83128	Water	25-JUL-2003	11:38 1.0	1.0	2			2:MG=382800	
051	tr211386	SER	QC220093	83128	Water	25-JUL-2003	11:41 5.0	1.0				2:MG=386800	
052	tr211387	MS	QC220091	83128	Water	25-JUL-2003	11:45 1.0	1.0				2:MG=384000	
053	tr211388	MSD	QC220092	83128	Water	25-JUL-2003	11:49 1.0	1.0	2				
054	tr211389	SAMPLE	166471-002	83128	Water	25-JUL-2003	11:52 1.0	1.0					
055	tr211390	SAMPLE	166471-003	83128	Water	25-JUL-2003	11:56 1.0	1.0					
056	tr211391	SAMPLE	166471-002	83128	Water	25-JUL-2003	11:59 1.0	1.0					
057	tr211392	SAMPLE	166471-003	83128	Water	25-JUL-2003	12:03 1.0	1.0					
058	tr211393	SAMPLE	166473-003	83128	Water	25-JUL-2003	12:06 1.0	1.0					
059	tr211394	SAMPLE	166460-016	83128	Water	25-JUL-2003	12:10 1.0	1.0					
060	tr211395	CCV				25-JUL-2003	12:32 1.0	1.0					
061	tr211396	CCB				25-JUL-2003	12:46 1.0	1.0					
062	tr211397	SAMPLE	166494-003	83128	Water	25-JUL-2003	12:51 1.0	1.0					
063	tr211398	BLANK	QC219894	83069	Miscel	25-JUL-2003	12:58 1.0	50.0	1				
064	tr211399	BS	QC219895	83069	Miscel	25-JUL-2003	13:02 1.0	50.0					

stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Melvin Date: 7/24/03
Page 2 of 4

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038

Instrument: MET07

TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr211400	BSD	QC219896	83069	Miscel	25-JUL-2003 13:06	1.0	50.0				1:CA=414500	
066	tr211401	MSS	166334-001	83069	Miscel	25-JUL-2003 13:10	10.0	49.01961	4			1:CA=438700	
067	tr211402	MS	QC219897	83069	Miscel	25-JUL-2003 13:13	10.0	43.47826		1		1:CA=438100	
068	tr211403	MSD	QC219898	83069	Miscel	25-JUL-2003 13:17	10.0	44.84305		1		1:CA=412500	
069	tr211404	MSS	166334-001	83069	Miscel	25-JUL-2003 13:21	10.0	49.01961	1			1:CA=433300	
070	tr211405	MS	QC219897	83069	Miscel	25-JUL-2003 13:24	10.0	43.47826		2		1:CA=430700	
071	tr211406	MSD	QC219898	83069	Miscel	25-JUL-2003 13:28	10.0	44.84305		2			
072	tr211407	CCV				25-JUL-2003 13:34	1.0	1.0					
073	tr211408	CCB				25-JUL-2003 13:37	1.0	1.0					
074	tr211409	SAMPLE	166334-002	83069	Miscel	25-JUL-2003 13:43	10.0	42.55319				1:CA=524300	
075	tr211410	SAMPLE	166334-003	83069	Miscel	25-JUL-2003 13:47	10.0	49.01961				1:CA=325400	
076	tr211411	SAMPLE	166334-004	83069	Miscel	25-JUL-2003 13:50	10.0	44.64286				1:CA=350300	
077	tr211412	SAMPLE	166334-005	83069	Miscel	25-JUL-2003 13:54	10.0	40.16064	1			1:CA=451300	
078	tr211413	SAMPLE	166334-006	83069	Miscel	25-JUL-2003 13:57	10.0	49.50495				1:CA=469100	
079	tr211414	SAMPLE	166334-007	83069	Miscel	25-JUL-2003 14:01	10.0	38.91051				1:CA=525700	
080	tr211415	SAMPLE	166334-008	83069	Miscel	25-JUL-2003 14:04	10.0	37.87879	1			1:CA=585600	
081	tr211416	SAMPLE	166334-009	83069	Miscel	25-JUL-2003 14:08	10.0	46.29630	1			1:CA=416400	
082	tr211417	SAMPLE	166334-010	83069	Miscel	25-JUL-2003 14:11	10.0	41.32231	6			1:CA=384700	
083	tr211418	SAMPLE	166467-005	83107	Soil	25-JUL-2003 14:15	10.0	35.21127	1				
084	tr211419	CCV				25-JUL-2003 14:18	1.0	1.0					
085	tr211420	CCB				25-JUL-2003 14:25	1.0	1.0					
086	tr211421	BLANK	QC219894	83069	Miscel	25-JUL-2003 14:32	1.0	50.0				1:CA=526800	
087	tr211422	SAMPLE	166334-002	83069	Miscel	25-JUL-2003 14:39	10.0	42.55319	2			1:CA=324300	
088	tr211423	SAMPLE	166334-003	83069	Miscel	25-JUL-2003 14:42	10.0	49.01961				1:CA=351900	
089	tr211424	SAMPLE	166334-004	83069	Miscel	25-JUL-2003 14:45	10.0	44.64286	1			1:CA=454100	
090	tr211425	SAMPLE	166334-005	83069	Miscel	25-JUL-2003 14:49	10.0	40.16064	1			1:CA=474200	
091	tr211426	SAMPLE	166334-006	83069	Miscel	25-JUL-2003 14:52	10.0	49.50495	1			1:CA=524900	
092	tr211427	SAMPLE	166334-007	83069	Miscel	25-JUL-2003 14:56	10.0	38.91051				1:CA=580300	
093	tr211428	SAMPLE	166334-008	83069	Miscel	25-JUL-2003 14:59	10.0	37.87879	2			1:CA=421000	
094	tr211429	SAMPLE	166334-009	83069	Miscel	25-JUL-2003 15:03	10.0	46.29630	1			1:CA=482600	
095	tr211430	SAMPLE	166334-010	83069	Miscel	25-JUL-2003 15:06	10.0	41.32231	1				
096	tr211431	CCV				25-JUL-2003 15:11	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Melvin Date: 7/25/03
Page 3 of 4

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73297038

Instrument: MET07

TJA Trace ICP

Begun: 25-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr211432	CCB				25-JUL-2003	15:15 1.0	1.0					
098	tr211433	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:19 10.0	47.84689				1:CA=450300	
099	tr211434	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:22 10.0	43.29004	1			1:CA=511300	
100	tr211435	SAMPLE	166334-013	83069	Miscel	25-JUL-2003	15:26 10.0	40.16064				1:CA=504200	
101	tr211436	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:29 10.0	44.64286				1:CA=455200	
102	tr211437	SAMPLE	166334-011	83069	Miscel	25-JUL-2003	15:33 10.0	47.84689	2			1:CA=453900	
103	tr211438	SAMPLE	166334-012	83069	Miscel	25-JUL-2003	15:36 10.0	43.29004				1:CA=508300	
104	tr211439	SAMPLE	166334-014	83069	Miscel	25-JUL-2003	15:41 10.0	44.64286				1:CA=445200	
105	tr211440	SAMPLE	166405-008	83069	Soil	25-JUL-2003	15:44 1.0	49.26108	2			3:FE=295200	
106	tr211441	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:48 1.0	1.0	1			1:CA=212800	
107	tr211442	SAMPLE	166461-001	83128	Water	25-JUL-2003	15:51 1.0	1.0	1			1:CA=214300	
108	tr211443	CCV				25-JUL-2003	15:55 1.0	1.0					
109	tr211444	CCB				25-JUL-2003	16:01 1.0	1.0					
110	tr211445	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:05 1.0	1.0	3			2:MG=766800	
111	tr211446	SAMPLE	166461-002	83128	Water	25-JUL-2003	16:08 1.0	1.0	2			2:MG=760000	
112	tr211447	BLANK	QC220150	83149	Air	25-JUL-2003	16:18 1.0	600.2401					
113	tr211448	BS	QC220151	83149	Air	25-JUL-2003	16:24 1.0	600.2401					
114	tr211449	BSD	QC220152	83149	Air	25-JUL-2003	16:28 1.0	600.2401					
115	tr211450	MSS	166371-001	83149	Air	25-JUL-2003	16:31 1.0	600.2401	2				
116	tr211451	MSS	166371-001	83149	Air	25-JUL-2003	16:39 1.0	600.2401	1				
117	tr211452	MS	QC220153	83149	Air	25-JUL-2003	16:43 1.0	600.2401					
118	tr211453	MSD	QC220154	83149	Air	25-JUL-2003	16:50 1.0	600.2401					
119	tr211454	SAMPLE	166371-002	83149	Air	25-JUL-2003	16:54 1.0	1.0					
120	tr211456	CCV				25-JUL-2003	17:04 1.0	1.0					
121	tr211457	CCB				25-JUL-2003	17:04 1.0	1.0					
122	tr211458	ICSA8				25-JUL-2003	17:08 1.0	1.0				4:AL=532200	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151 9=03WS1152

Analyst: Mei wu Date: 7/28/03

Curtis & Tompkins Laboratories Sample Preparation Summary

25-JUL-2003 07:48

Batch Number : 83120
 Date Extracted: 24-JUL-2003
 Extracted by : Dennis Dougherty
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS74
 Spike #2 ID : 03SS75
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/W	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Analyses Vol	Comments
166488-001		ConocoPhillips Company	Miscell.	2.08	g	100	48.0769	1				CU, FE, SE
166494-001		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN
166494-002		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN
166494-004		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN
166494-005		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN
166494-006		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN
166494-007		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN
166494-008		Treadwell & Rollo	Soil	1.99	g	100	50.2512	1				BA, CU, PB, SB, ZN
166494-009		Treadwell & Rollo	Soil	2	g	100	50	1				BA, CU, PB, SB, ZN
166494-010		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN
166494-011		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN
166494-012		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN
166494-013		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				BA, CU, PB, SB, ZN
166494-014		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN
166494-015		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				TAL/ICP
166494-016		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN
166494-017		Treadwell & Rollo	Soil	2	g	100	50	1				BA, CU, PB, SB, ZN
166494-018		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN
166494-019		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN
166494-020		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN
QC220054	BLANK		Soil	2	g	100	50	1				ICAP
QC220055	BS		Soil	2	g	100	50	1	1			ICAP
QC220056	BSD		Soil	2	g	100	50	1	1			ICAP
QC220057	MS		Soil	2.04	g	100	49.0196	1	1			ICAP
QC220058	MSD		Soil	2.04	g	100	49.0196	1	1			ICAP
QC220130	SER		Soil	2.02	g	100	49.5049	1				ICAP
QC220155	PDS		Soil	2.02	g	100	49.5049	1				ICAP

of 166494-015
 of 166494-015
 of 166494-015
 of 166494-015

Prep Chemist: James for HDD
 Relinquished By: James for HDD

Reviewed By: James Date: 7/25/03
 Received By: James Date: 7/25/03

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg	u

Method Detection Limit Study for EPA 60102
Curtis & Tompkins-Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07 Study # : 17740 Batchnum : 82362
Matrix : Soil Study Date: 23-JUN-2003
Partition : Ali Effective : 25-JUN-2003 Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg	Bu

Report generated by: [illegible]

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83114
 Date: 07/24/03
 Method: CLP SOW 390
 Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166494-001	15.8204	24.7548	23.0080	80	20
166494-002	14.7195	22.5421	21.5888	88	12
166494-004	15.5975	22.1649	21.8990	96	4
166494-005	15.3238	21.4576	21.2101	96	4
166494-006	15.4181	22.4676	22.3124	98	2
166494-007	15.2496	22.7452	22.5897	98	2
166494-008	15.3181	21.4847	21.2755	97	3
166494-009	16.0159	21.8888	21.7999	98	2
166494-010	15.3383	21.5961	21.1881	93	7
166494-011	15.2794	23.5549	22.7389	90	10
166494-012	15.2211	21.3024	21.0960	97	3
166494-013	15.3217	21.9973	21.9160	99	1
166494-014	11.3510	18.9883	18.8895	99	1
166494-015	15.3314	21.6999	21.6200	99	1
166494-016	15.4548	21.5101	21.4585	99	1
166494-017	15.4281	23.2329	23.1490	99	1
166494-018	15.5009	22.6159	22.5212	99	1
166494-019	15.3133	22.4131	22.2960	98	2
166494-020	15.1332	23.0668	22.9460	98	2
QC220037	15.4753	24.3046	22.4613	79	21
of 166494-001			RPD:	1.7%	6.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83114
 Date Started: 23-JUL-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166494-001		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-002		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-004		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-005		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-006		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-007		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-008		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-009		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-010		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-011		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-012		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-013		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-014		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-015		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-016		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-017		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-018		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-019		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
166494-020		Treadwell & Rollo	Soil	MOISTURE	29-JUL-2003
QC220037	SDUP	of 166494-001	Soil	MOISTURE	

MOISTURE

1741

2

7/23/03

83114

Sample	dish#	tare wt	unit wt.	fin wt.	comment
BLANK	XII	11.2237	-	11.2269	
106494-1	III	15.8204	24.7548	23.0080	
-1 Dup	1A	15.4753	24.3046	22.4613	
-2	4A	14.7195	22.5421	21.5888	
-4	P	15.5975	22.1649	21.8990	
-5	7B	15.3238	21.4576	21.2101	
-6	A2	15.4181	22.4676	22.3124	
-7	3A	15.2496	22.7452	22.5897	
-8	30	15.3181	21.4847	21.2755	
-9	7D	16.0159	21.8888	21.7990	
-10	15C	15.3383	21.5961	21.1881	
-11	113A	15.2794	23.5549	22.7389	
-12	T	15.2211	21.3024	21.0960	
-13	17	15.3217	21.9973	21.9160	
-14	VII	11.3510	18.9883	18.8895	
-15	17C	15.3314	21.6999	21.6200	
-16	Q	15.4548	21.5101	21.4585	
-17	101	15.4281	23.2329	23.1440	
-18	37	15.5009	22.6159	22.5212	
-19	F	15.3133	22.4131	22.2960	
-20	25	15.1332	23.0008	22.9460	

oven temp: 105°C

time in: 6:25 pm

time out: 10:10 AM on: 7/24/03

L. Dutch

7/23/03 114

7/23/03

7/23/03



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166535

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio - Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
LCPSB29 [1]	166535-001	LCPSB24 [1]	166535-031
LCPSB29 [2]	166535-002	LCPSB24 [2.5]	166535-032
LCPSB28 [1]	166535-003	LCPSB25 [1.5]	166535-033
LCPSB28 [2]	166535-004	LCPSB25 [2.5]	166535-034
LCPSB36 [1]	166535-005	LCBSB21 [1]	166535-035
LCPSB36 [2]	166535-006	LCBSB21 [2]	166535-036
LCPSB37 [1]	166535-007	DUP072403A	166535-037
DUP072303B	166535-008	LCBSB19 [1]	166535-038
LCPSB37 [2]	166535-009	LCBSB19 [2]	166535-039
LCPSB17 [1]	166535-010	LCBSB35 [1]	166535-040
LCPSB17 [2]	166535-011	LCBSB37 [1]	166535-041
LCPSB16 [1]	166535-012	LCBSB37 [0.3]	166535-042
LCPSB16 [2]	166535-013	LCBSB23 [1]	166535-043
LCPSB13 [1] [MSD]	166535-014	LCBSB23 [2]	166535-044
LCPSB13 [2]	166535-015	LCBSB24 [1]	166535-045
LCPSB11 [2]	166535-016	DUP072403B	166535-046
LCPSB11 [1]	166535-017	LCBSB24 [2.5]	166535-047
LCPSB12 [1]	166535-018	LCBSB33 [2]	166535-048
LCPSB12 [2]	166535-019	LCBSB33 [1]	166535-049
LCPSB18 [0.3]	166535-020	LCBSB35 [2]	166535-050
LCPSB18 [1]	166535-021	LCBSB32 [0.3] [MSD]	166535-051
LCPSB19 [0.3]	166535-022	LCBSB32 [1]	166535-052
LCPSB19 [1]	166535-023	LCBSB31 [0.3]	166535-053
LCPSB27 [1]	166535-024	LCBSB31 [1]	166535-054
LCPSB27 [2]	166535-025	LCBSB29 [0.3]	166535-055
LCPSB21 [1] RBLCPBSB20 [166535-026	LCBSB29 [1]	166535-056
LCPSB21 [1]	166535-027	LCBSB28 [0.3]	166535-057
LCPSB21 [2.5]	166535-028	LCBSB28 [1]	166535-058
LCPSB20 [1]	166535-029	LCBSB27 [0.3]	166535-059
LCPSB20 [2.5]	166535-030	LCBSB27 [1]	166535-060



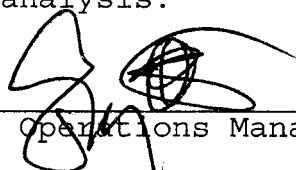
Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

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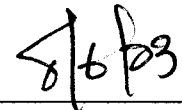
Laboratory Number 166535

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.


Signature: _____


Operations Manager

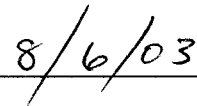
Date: _____



Signature: _____


Project Manager

Date: _____



Laboratory Number: **166535**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/24/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and fifty-nine soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The water matrix spike recoveries for magnesium and manganese were not meaningful. The soil matrix spike recoveries for samples LCPSB13[1][MSD] (166535-014), LCPSB18[1] (166535-021), and LCBSB32[0.3][MSD] (166535-051) were also not meaningful for aluminum, iron, and manganese, iron and manganese, and aluminum, iron, and manganese, respectively. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The water matrix spike recoveries for antimony and arsenic were outside acceptance limits. The soil matrix spike recoveries for samples LCPSB13[1][MSD] (166535-014), LCPSB18[1] (166535-021), and LCBSB32[0.3][MSD] (166535-051) were also outside acceptance limits for antimony and magnesium, aluminum, antimony, copper, and magnesium, and antimony and zinc, respectively. The associated blank spike recoveries were acceptable for all target elements.

The %D of the continuing calibration standard (CCS) tr211777 was outside acceptance limits for antimony and iron, however, the standard did not bracket any reported results.

Trace level selenium was detected in the continuing calibration blank (CCB) tr211779, however, the standard did not bracket any reported results.

The %D of the interference check standard AB (ICSAB) tr211791 was above acceptance limits for antimony. The element was not detected in the associated sample, therefore, there is no affect on the quality of the sample results.

The serial dilution sample analyzed on 7/30/03 at 13:40 was outside acceptance limits for chromium. The serial dilution sample analyzed on 7/29/03 at 10:56 was outside acceptance limits for arsenic and selenium. The serial dilution sample analyzed on 7/30/03 at 10:21 was outside acceptance limits for arsenic. The serial dilution sample analyzed on 7/30/03 at 10:50 for arsenic and copper. The serial dilution sample analyzed on 7/30/03 at 10:53 was outside acceptance limits for lead. No other analytical problems were encountered.

Chain of Custody

166535

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Page 2 of 2

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Residio Firing Ranges
Job Number: 2893.07
Project Manager/Contact: Dorinda Shipman
Samplers: RRP/DSS
Recorder (Signature Required): Rhonda Richards

Turnaround Time
5td.

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							Analysis Requested	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice		
-15 LCP5B13 [2]	7-23-03	1228		X								See Page 1 for 5 Metals + 19 Metals
-16 LCP5B11 [2]	7-23-03	1257		X								
-17 LCP5B11 [1]	7-23-03	1253		X								
-18 LCP5B12 [1]	7-23-03	1258		X								
-19 LCP5B12 [2]	7-23-03	1259		X								
-20 LCP5B18 [0.3]	7-23-03	1305		X								
-21 LCP5B18 [1]	7-23-03	1307		X								
-22 LCP5B19 [0.3]	7-23-03	1313		X								
-23 LCP5B19 [1]	7-23-03	1315		X								
-24 LCP5B27 [1]	7-23-03	1434		X								
-25 LCP5B27 [2]	7-23-03	1436		X								
-26 LCP5B21 [1]	7-23-03	1455										← LCP5B21 [1] RB LCP5B20 [1]
-27 LCP5B21 [1]	7-23-03	1450										19 metals
-28 LCP5B21 [2]	7-23-03	1530										

Relinquished by: (Signature) <u>Rhonda Richards</u>	Date <u>7/24/03</u>	Time <u>1200</u>
Relinquished by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS
☐ Hand Carried ☐ Private Courier (Co. Name)

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: **002868**

rec'd intact in shoe

166535

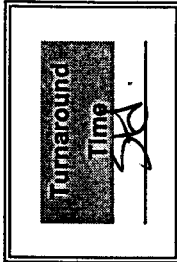
Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 3 of 45

Site Name: Firing RangeJob Number: 2893.01Project Manager/Contact: Dr. J. ShipmanSamplers: DRS/RRRecorder (Signature Required): Rhonda for DRS.

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested				Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃		Ice	Other	Silica gel clean-up	Hold	
-29 LCP5B20C17	7-23	1500		X											
-30 LCP5B20C17	7-23	1558		X											
-31 LCP5B24C17		1510		X											
-32 LCP5B24C2.5J		1556		X											
-33 LCP5B25C1.5J		1600		X											
-34 LCP5B25C2.5J		1602		X											
-35 LCP5B21C17	7-24	0858													
-36 LCP5B21C22	7-24	0901													
-37 DUP072403A	7-24	0900													
-38 LCP5B19C17	7-24	0906													
-39 LCP5B19C27	7-24	0907													
-40 LCP5B35C17	7-24	0920													
-41 LCP5B37C17	7-24	0934													
-42 LCP5B37C0.37	7-24	0932													
Relinquished by: (Signature) <u>Rhonda for DRS</u>				Date	7/24/03	Time	1200	Received by: (Signature) <u>[Signature]</u>				Date	7/24/03	Time	1200
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time	
Relinquished by: (Signature)				Date		Time		Received by Lab: (Signature)				Date		Time	
Sent to Laboratory (Name): <u>Curtis Tamping</u>				Method of Shipment: <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS											
Laboratory Comments/Notes:				<input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name)											

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 002867

rec'd in tact under

166535

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name:

Presidio - Firing Ranges

Job Number:

2893.07

Project Manager/Contact:

Dorinda Shipman

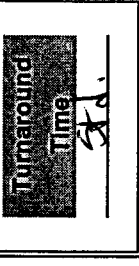
Samplers:

DISIRER

Recorder (Signature Required):

Duthelend

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested	Hold	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃					Ice
-43	LCBSB23	7-24-03	94	X										See Page 1 for Metals 135
-44	LCBSB23	7-24-03	948	X										
-45	LCBSB24	7-24-03	956	X										
-46	DP012403B	7-24-03	958	X										
-47	LCBSB24	7-24-03	1000	X										
-48	LCBSB33	7-24-03	1010	X										
-49	LCBSB33	7-24-03	1006	X										
-50	LCBSB35	7-24-03	1015	X										
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by: (Signature) <i>R. Duthelend</i> </div> <div> Date: 7/24/03 Time: 1200 </div> </div>														
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by: (Signature) </div> <div> Date: Time: </div> </div>														
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by: (Signature) </div> <div> Date: Time: </div> </div>														
<div style="display: flex; justify-content: space-between;"> <div> Sent to Laboratory (Name): Laboratory Comments/Notes: </div> <div> Curtis + Tompkins </div> </div>														



White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 002839

red intact in 1 cu

CHAIN OF CUSTODY RECORD

Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041

2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985

501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Firing Ranges

Job Number:

Project Manager/Contact: Dorinda Shipman

Samplers: RRR/035

Recorder (Signature Required): Thaddeus

Turnaround Time 5d.

Job Number: 283070				Project Manager/Contact: Danda Shipman				Analysis Requested				
Samplers: RER/035				Recorder (Signature Required): Rhonda Richard				No. Containers				
				Matrix				& Preservative				
Field Sample Identification No.	Date	Time	Lab Sample No.	Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other	
LC858263	7/24/03	10:22		X								
LC85832	7/24/03	10:23		X								
LC85831	7/24/03	10:30		X								
LC85834	7/24/03	10:31		X								
LC85829	7/24/03	10:37		X								
LC85829	7/24/03	10:38		X								
LC85828	7/24/03	10:42		X								
LC85828	7/24/03	10:44		X								
LC85827	7/24/03	10:50		X								
LC85827	7/24/03	10:52		X								
<hr/>												
Relinquished by: (Signature)				Date	7/24/03	Time	1200	Received by: (Signature)				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				
Relinquished by: (Signature)				Date		Time		Received by Lab: (Signature)				
Sent to Laboratory (Name):				Method of Shipment								
Laboratory Comments/Notes:				<input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Lab courier								

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 000553

midcontact and

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166535 Date Received: 7-24-03 Number of Coolers: 3
Client: Treadwell & Rollo Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-24-03 By (print): Tray Windsor (sign) Tray Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: Wet Temperature: 4.3 4.8 3.6

B. Login Phase

Date Logged In: 7-24-03 By (print): Tray Windsor (sign) Tray Windsor

1. Describe type of packing in cooler: In ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... YES NO N/A

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB21[1]RBLCPBSB20[Batch#:	83172
Lab ID:	166535-026	Sampled:	07/23/03
Matrix:	Water	Received:	07/24/03
Units:	ug/L	Prepared:	07/25/03
Diln Fac:	1.000	Analyzed:	07/29/03

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Iron	560	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220248	Batch#:	83172
Matrix:	Water	Prepared:	07/25/03
Units:	ug/L	Analyzed:	07/29/03

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83172
Units:	ug/L	Prepared:	07/25/03
Diln Fac:	1.000	Analyzed:	07/29/03

Type: BS

Lab ID: QC220249

Analyte	Spiked	Result	%REC	Limits
Aluminum	2,000	1,932	97	80-120
Antimony	500.0	545.0	109	80-120
Arsenic	100.0	101.0	101	80-120
Barium	2,000	1,950	98	80-120
Beryllium	50.00	49.50	99	80-120
Cadmium	50.00	48.20	96	80-120
Chromium	200.0	191.0	96	80-120
Cobalt	500.0	472.0	94	80-120
Copper	250.0	247.0	99	80-120
Iron	1,000	939.3	94	80-120
Lead	100.0	98.30	98	80-120
Magnesium	20,000	19,390	97	80-120
Manganese	50.00	48.70	97	80-120
Nickel	500.0	483.0	97	80-120
Selenium	100.0	101.0	101	80-120
Silver	50.00	47.60	95	80-120
Thallium	100.0	91.40	91	80-120
Vanadium	500.0	468.0	94	80-120
Zinc	500.0	485.0	97	80-120

Type: BSD

Lab ID: QC220250

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	2,000	1,938	97	80-120	0	20
Antimony	500.0	536.0	107	80-120	2	20
Arsenic	100.0	98.80	99	80-120	2	20
Barium	2,000	1,970	99	80-120	1	20
Beryllium	50.00	49.70	99	80-120	0	20
Cadmium	50.00	48.70	97	80-120	1	20
Chromium	200.0	191.0	96	80-120	0	20
Cobalt	500.0	473.0	95	80-120	0	20
Copper	250.0	248.0	99	80-120	0	20
Iron	1,000	941.4	94	80-120	0	20
Lead	100.0	97.70	98	80-120	1	20
Magnesium	20,000	19,460	97	80-120	0	20
Manganese	50.00	48.60	97	80-120	0	20
Nickel	500.0	486.0	97	80-120	1	20
Selenium	100.0	101.0	101	80-120	0	20
Silver	50.00	47.60	95	80-120	0	20
Thallium	100.0	87.90	88	80-120	4	20
Vanadium	500.0	470.0	94	80-120	0	20
Zinc	500.0	488.0	98	80-120	1	20

RPD= Relative Percent Difference
Page 1 of 1

53.0



Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83172
MSS Lab ID:	166495-001	Sampled:	07/15/03
Matrix:	Water	Received:	07/23/03
Units:	ug/L	Prepared:	07/25/03
Diln Fac:	1.000	Analyzed:	07/29/03

Type: MS Lab ID: QC220251

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	315.6	2,000	2,577	113	75-125
Antimony	12.50	500.0	656.0	129 *	75-125
Arsenic	20.40	100.0	145.0	125	75-125
Barium	1,000	2,000	3,090	105	75-125
Beryllium	<0.1300	50.00	52.60	105	75-125
Cadmium	0.1940	50.00	49.70	99	75-125
Chromium	2.190	200.0	203.0	100	75-125
Cobalt	<0.7600	500.0	502.0	100	75-125
Copper	<0.4200	250.0	307.0	123	75-125
Iron	3,447	1,000	4,401	95	75-125
Lead	2.610	100.0	104.0	101	75-125
Magnesium	675,200	20,000	785,900 >LR	554 NM	75-125
Manganese	7,200	50.00	7,150	-100 NM	75-125
Nickel	26.30	500.0	525.0	100	75-125
Selenium	<3.200	100.0	119.0	119	75-125
Silver	<0.4300	50.00	60.20	120	75-125
Thallium	4.280	100.0	118.0	114	75-125
Vanadium	<0.5900	500.0	526.0	105	75-125
Zinc	15.20	500.0	569.0	111	75-125

Type: MSD Lab ID: QC220252

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	2,000	2,533	111	75-125	2	20
Antimony	500.0	646.0	127 *	75-125	2	20
Arsenic	100.0	146.0	126 *	75-125	1	20
Barium	2,000	3,060	103	75-125	1	20
Beryllium	50.00	52.40	105	75-125	0	20
Cadmium	50.00	49.30	98	75-125	1	20
Chromium	200.0	202.0	100	75-125	0	20
Cobalt	500.0	502.0	100	75-125	0	20
Copper	250.0	304.0	122	75-125	1	20
Iron	1,000	4,391	94	75-125	0	20
Lead	100.0	102.0	99	75-125	2	20
Magnesium	20,000	781,800 >LR	533 NM	75-125	NC	20
Manganese	50.00	7,120	-160 NM	75-125	0	20
Nickel	500.0	522.0	99	75-125	1	20
Selenium	100.0	118.0	118	75-125	1	20
Silver	50.00	60.00	120	75-125	0	20
Thallium	100.0	113.0	109	75-125	4	20
Vanadium	500.0	522.0	104	75-125	1	20
Zinc	500.0	564.0	110	75-125	1	20

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73302834114
Filename : tr211757
IDF : 5.0
PDF : 1.0
Run type : SER
Samplenum: QC220253
Matrix : Water
Batchnum : 83172
Inj : 29-JUL-2003 16:44
Units : ug/L

MSS : 166495-001

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	73302834112	316	100	969	500	--	10	u
Antimony	73302834113	ND	60.0	ND	300	--	10	u
Arsenic	73302834113	20.4	5.00	ND	25.0	--	10	u
Barium	73302834112	1000	10.0	970	50.0	3	10	u
Beryllium	73302834112	ND	2.00	ND	10.0	--	10	u
Cadmium	73302834112	ND	5.00	ND	25.0	--	10	u
Calcium	*** usable MSS data not found ***							
Chromium	73302834112	ND	10.0	ND	50.0	--	10	u
Cobalt	73302834112	ND	20.0	ND	100	--	10	u
Copper	73302834112	ND	10.0	ND	50.0	--	10	u
Iron	73302834112	3450	100	3370	500	2	10	u
Lead	73302834112	ND	3.00	ND	15.0	--	10	u
Magnesium	*** usable MSS data not found ***							
Manganese	73302834112	7200	10.0	7200	50.0	0	10	u
Molybdenum	73302834112	ND	20.0	ND	100	--	10	u
Nickel	73302834112	26.3	20.0	ND	100	--	10	u
Selenium	73302834112	ND	5.00	ND	25.0	--	10	u
Silver	73302834112	ND	5.00	ND	25.0	--	10	u
Thallium	73302834112	ND	5.00	ND	25.0	--	10	u
Vanadium	73302834112	ND	10.0	ND	50.0	--	10	u
Zinc	73302834112	ND	20.0	ND	100	--	10	u
Titanium	73302834112	12.0	10.0	ND	50.0	--	10	u

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73302834115
Filename : tr211758
IDF : 10.0
PDF : 1.0
Run type : MSS
Samplenum: 166495-001
Matrix : Water
Batchnum : 83172
Inj : 29-JUL-2003 16:48
Units : ug/L

Instid : MET07
Seqnum : 73302834116
Filename : tr211759
IDF : 50.0
PDF : 1.0
Run type : SER
Samplenum: QC220253
Matrix : Water
Batchnum : 83172
Inj : 29-JUL-2003 16:52

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	1530	1000	5950	5000	--	10		
Antimony	ND	600	ND	3000	--	10		
Arsenic	ND	50.0	ND	250	--	10		
Barium	878	100	890	500	--	10		
Beryllium	ND	20.0	ND	100	--	10		
Cadmium	ND	50.0	ND	250	--	10		
Calcium	222000	5000	224000	25000	1	10		u
Chromium	ND	100	ND	500	--	10		
Cobalt	ND	200	ND	1000	--	10		
Copper	ND	100	ND	500	--	10		
Iron	3360	1000	ND	5000	--	10		
Lead	ND	30.0	ND	150	--	10		
Magnesium	675000	5000	676000	25000	0	10		u
Manganese	6480	100	6600	500	2	10		
Molybdenum	ND	200	ND	1000	--	10		
Nickel	ND	200	ND	1000	--	10		
Selenium	ND	50.0	ND	250	--	10		
Silver	ND	50.0	ND	250	--	10		
Thallium	ND	50.0	ND	250	--	10		
Vanadium	ND	100	ND	500	--	10		
Zinc	ND	200	ND	1000	--	10		
Titanium	ND	100	ND	500	--	10		

u=use

Method: 6010B Standard: blank
Run Time: 07/29/03 06:57:40

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	.001	-.094	.001	.000
SDev	.000	.000	.000	.000	.001	.000	.000
%RSD	6.72	43.5	83.6	12.9	.915	29.4	55.3
#1	-.001	.000	-.001	.001	-.094	.001	.000
#2	-.001	.001	-.000	.001	-.093	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.000	-.000	.000	-.000	-.001
SDev	.000	.000	.001	.000	.000	.000	.000
%RSD	17.0	17.4	153.	236.	38.6	538.	5.30
#1	-.000	-.002	.001	.000	.000	-.000	-.002
#2	-.000	-.002	-.000	-.000	.000	.000	-.001
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.002	-.000	.000	.004	.0254	-.0057
SDev	.000	.000	.000	.000	.000	.0000	.0001
%RSD	9.42	1.33	141.	28.3	1.17	.1267	1.354
#1	.001	.002	-.000	.000	.004	.0255	-.0057
#2	.001	.002	.000	.000	.004	.0254	-.0056
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.050			
SDev	.0003	.0001	.000	.001			
%RSD	42.42	184.9	101.	1.32			
#1	-.0008	-.0000	.000	.050			
#2	-.0004	.0001	.000	.051			

Method: 6010B Standard: cst hi

Run Time: 07/29/03 07:04:17

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.171	.105	.037	5.44	.636	.209	.050
SDev	.004	.001	.001	.00	.004	.001	.000
%RSD	2.33	1.38	1.38	.059	.704	.627	.478
#1	.168	.104	.036	5.43	.633	.208	.050
#2	.174	.106	.037	5.44	.639	.210	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.136	.132	.147	.149	.264	.344	.039
SDev	.001	.000	.001	.001	.001	.001	.001
%RSD	.551	.102	.433	.801	.458	.281	1.73
#1	.136	.132	.147	.148	.263	.344	.039
#2	.137	.131	.147	.150	.265	.345	.040
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.048	.079	.026	.206	.030	.0538	.0652
SDev	.001	.000	.000	.000	.000	.0001	.0005
%RSD	1.07	.120	.985	.164	.534	.1463	.7477
#1	.048	.079	.025	.206	.030	.0537	.0649
#2	.048	.079	.026	.206	.030	.0538	.0656
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0257	.0382	.223	1.96			
SDev	.0004	.0002	.001	.01			
%RSD	1.413	.4885	.561	.317			
#1	.0255	.0381	.222	1.96			
#2	.0260	.0384	.223	1.97			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5784.34	4.85124	07/29/03 07:04:17
Sb206A	206.832	Multiple	Standards	9411.56	-3.66487	07/29/03 07:04:17
As1890	189.042	Multiple	Standards	13462.2	5.91381	07/29/03 07:04:17
Ba4934	493.409	Multiple	Standards	184.020	-.212213	07/29/03 07:04:17
Be3130	313.042	Multiple	Standards	132.373	12.4018	07/29/03 07:04:17
Cd2265	226.502	Multiple	Standards	479.405	-.471467	07/29/03 07:04:17
Cr2677	267.716	Multiple	Standards	3999.74	-.459267	07/29/03 07:04:17
Co2286	228.616	Multiple	Standards	3663.85	.914541	07/29/03 07:04:17
Cu3247	324.754	Multiple	Standards	1496.77	3.05733	07/29/03 07:04:17
Pb2203	220.351	Multiple	Standards	3413.06	-1.70371	07/29/03 07:04:17
Pb220A	220.352	Multiple	Standards	3329.38	.099739	07/29/03 07:04:17
Mo2020	202.030	Multiple	Standards	3789.72	-1.24868	07/29/03 07:04:17
Ni2316	231.604	Multiple	Standards	1449.39	.072333	07/29/03 07:04:17
Se1960	196.021	Multiple	Standards	12346.2	18.0589	07/29/03 07:04:17
Se196A	196.022	Multiple	Standards	10658.0	-12.7696	07/29/03 07:04:17
Ag3280	328.068	Multiple	Standards	1308.50	-2.80888	07/29/03 07:04:17
Tl1908	190.864	Multiple	Standards	19447.2	4.46548	07/29/03 07:04:17
V_2924	292.402	Multiple	Standards	2426.43	-.484520	07/29/03 07:04:17
Zn2138	213.856	Multiple	Standards	4015.54	-17.1396	07/29/03 07:04:17
Al3082	308.215	Multiple	Standards	35756.8	-909.837	07/29/03 07:04:17
Ca3179	317.933	Multiple	Standards	28206.9	160.387	07/29/03 07:04:17
Fe2714	271.441	Multiple	Standards	39578.2	23.7092	07/29/03 07:04:17
Mg2790	279.079	Multiple	Standards	52386.9	-3.40020	07/29/03 07:04:17
Mn2576	257.610	Multiple	Standards	449.899	-.110060	07/29/03 07:04:17
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Ti3349	334.941	Multiple	Standards	522.418	-26.3226	07/29/03 07:04:17

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834001

Run Name :
Filename : tr211641

Injected : 29-JUL-2003 07:14
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	960.9000	ug/L	-4	5	
Antimony	1000.000	996.0000	ug/L	0	5	
Arsenic	500.0000	493.0000	ug/L	-1	5	
Barium	1000.000	972.0000	ug/L	-3	5	
Beryllium	100.0000	98.40000	ug/L	-2	5	
Cadmium	100.0000	98.00000	ug/L	-2	5	
Calcium	2000.000	1984.000	ug/L	-1	5	
Chromium	200.0000	195.0000	ug/L	-3	5	
Cobalt	500.0000	491.0000	ug/L	-2	5	
Copper	200.0000	196.0000	ug/L	-2	5	
Iron	1000.000	971.6000	ug/L	-3	5	
Lead	500.0000	491.0000	ug/L	-2	5	
Magnesium	2000.000	1957.000	ug/L	-2	5	
Manganese	100.0000	98.20000	ug/L	-2	5	
Molybdenum	1000.000	983.0000	ug/L	-2	5	
Nickel	500.0000	491.0000	ug/L	-2	5	
Selenium	500.0000	491.0000	ug/L	-2	5	
Silver	100.0000	99.10000	ug/L	-1	5	
Thallium	500.0000	490.0000	ug/L	-2	5	
Titanium	1000.000	978.0000	ug/L	-2	5	
Vanadium	500.0000	490.0000	ug/L	-2	5	
Zinc	100.0000	97.50000	ug/L	-3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834002

Run Name :
Filename : tr211642

Injected : 29-JUL-2003 07:22
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	460.1000	ug/L	-8	10
Antimony	500.0000	464.0000	ug/L	-7	10
Arsenic	250.0000	252.0000	ug/L	1	10
Barium	500.0000	479.0000	ug/L	-4	10
Beryllium	50.00000	50.50000	ug/L	1	10
Cadmium	50.00000	48.40000	ug/L	-3	10
Calcium	1000.000	1011.000	ug/L	1	10
Chromium	100.0000	99.50000	ug/L	-1	10
Cobalt	250.0000	246.0000	ug/L	-2	10
Copper	100.0000	100.0000	ug/L	0	10
Iron	500.0000	486.5000	ug/L	-3	10
Lead	250.0000	235.0000	ug/L	-6	10
Magnesium	1000.000	1001.000	ug/L	0	10
Manganese	50.00000	48.90000	ug/L	-2	10
Molybdenum	500.0000	484.0000	ug/L	-3	10
Nickel	250.0000	250.0000	ug/L	0	10
Selenium	250.0000	237.0000	ug/L	-5	10
Silver	50.00000	48.80000	ug/L	-2	10
Thallium	250.0000	236.0000	ug/L	-6	10
Titanium	500.0000	500.0000	ug/L	0	10
Vanadium	250.0000	245.0000	ug/L	-2	10
Zinc	50.00000	49.20000	ug/L	-2	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834004

Run Name :
Filename : tr211644

Injected : 29-JUL-2003 07:31
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	105.4000	ug/L	5		50	
Antimony	60.00000	63.80000	ug/L	6		50	
Arsenic	5.000000	6.090000	ug/L	22		50	
Barium	10.00000	9.670000	ug/L	-3		50	
Beryllium	2.000000	1.390000	ug/L	-31		50	
Cadmium	5.000000	4.900000	ug/L	-2		50	
Chromium	10.00000	9.400000	ug/L	-6		50	
Cobalt	20.00000	19.30000	ug/L	-4		50	
Copper	10.00000	10.40000	ug/L	4		50	
Iron	100.0000	99.74000	ug/L	0		50	
Lead	3.000000	2.220000	ug/L	-26		50	
Manganese	10.00000	9.760000	ug/L	-2		50	
Molybdenum	20.00000	20.10000	ug/L	1		50	
Nickel	20.00000	19.80000	ug/L	-1		50	
Selenium	5.000000	4.410000	ug/L	-12		50	
Silver	5.000000	5.440000	ug/L	9		50	
Thallium	5.000000	5.640000	ug/L	13		50	
Vanadium	10.00000	10.30000	ug/L	3		50	
Zinc	20.00000	19.60000	ug/L	-2		50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834014

Run Name :
Filename : tr211654

Injected : 29-JUL-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	464.5000	ug/L	-7	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	486.0000	ug/L	-3	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	48.20000	ug/L	-4	10	
Calcium		1000.000	1007.000	ug/L	1	10	
Chromium		100.0000	98.90000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	507.0000	ug/L	1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1002.000	ug/L	0	10	
Manganese		50.00000	48.70000	ug/L	-3	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	236.0000	ug/L	-6	10	
Silver		50.00000	50.60000	ug/L	1	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.40000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834026

Run Name :
Filename : tr211666

Injected : 29-JUL-2003 09:28
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	687.3000	ug/L	-8	10	
Antimony		750.0000	746.0000	ug/L	-1	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	715.0000	ug/L	-5	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	70.40000	ug/L	-6	10	
Calcium		1500.000	1513.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	741.2000	ug/L	-1	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	72.00000	ug/L	-4	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	366.0000	ug/L	-2	10	
Selenium		375.0000	361.0000	ug/L	-4	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	736.0000	ug/L	-2	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834038

Run Name :
Filename : tr211678

Injected : 29-JUL-2003 10:23
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	777.5000	ug/L	4	10	
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	725.0000	ug/L	-3	10	
Beryllium		75.00000	75.70000	ug/L	1	10	
Cadmium		75.00000	71.30000	ug/L	-5	10	
Calcium		1500.000	1545.000	ug/L	3	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	778.9000	ug/L	4	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1552.000	ug/L	3	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.40000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834050

Run Name :
Filename : tr211691

Injected : 29-JUL-2003 11:32
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	465.0000	ug/L	-7	10	
Antimony		500.0000	484.0000	ug/L	-3	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	481.0000	ug/L	-4	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	46.80000	ug/L	-6	10	
Calcium		1000.000	974.5000	ug/L	-3	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	99.40000	ug/L	-1	10	
Iron		500.0000	499.3000	ug/L	0	10	
Lead		250.0000	238.0000	ug/L	-5	10	
Magnesium		1000.000	995.6000	ug/L	0	10	
Manganese		50.00000	47.10000	ug/L	-6	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	49.60000	ug/L	-1	10	
Thallium		250.0000	235.0000	ug/L	-6	10	
Titanium		500.0000	497.0000	ug/L	-1	10	
Vanadium		250.0000	238.0000	ug/L	-5	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834062

Run Name :
Filename : tr211703

Injected : 29-JUL-2003 12:25
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	275.6000	ug/L	10	10	
Antimony		250.0000	263.0000	ug/L	5	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	251.0000	ug/L	0	10	
Beryllium		25.00000	26.40000	ug/L	6	10	
Cadmium		25.00000	24.70000	ug/L	-1	10	
Calcium		500.0000	499.8000	ug/L	0	10	
Chromium		50.00000	51.50000	ug/L	3	10	
Cobalt		125.0000	126.0000	ug/L	1	10	
Copper		50.00000	51.10000	ug/L	2	10	
Iron		250.0000	272.3000	ug/L	9	10	
Lead		125.0000	126.0000	ug/L	1	10	
Magnesium		500.0000	518.8000	ug/L	4	10	
Manganese		25.00000	24.70000	ug/L	-1	10	
Molybdenum		250.0000	252.0000	ug/L	1	10	
Nickel		125.0000	129.0000	ug/L	3	10	
Selenium		125.0000	128.0000	ug/L	2	10	
Silver		25.00000	25.50000	ug/L	2	10	
Thallium		125.0000	120.0000	ug/L	-4	10	
Titanium		250.0000	259.0000	ug/L	4	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	26.70000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834074

Run Name :
Filename : tr211716

Injected : 29-JUL-2003 13:33
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	521.6000	ug/L	4	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	262.0000	ug/L	5	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	50.40000	ug/L	1	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	999.4000	ug/L	0	10	
Chromium		100.0000	99.50000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	488.9000	ug/L	-2	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	998.0000	ug/L	0	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	48.90000	ug/L	-2	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	501.0000	ug/L	0	10	
Vanadium		250.0000	237.0000	ug/L	-5	10	
Zinc		50.00000	51.40000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834086

Run Name :
Filename : tr211729

Injected : 29-JUL-2003 14:37
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	812.2000	ug/L	8	10	
Antimony		750.0000	793.0000	ug/L	6	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	747.0000	ug/L	0	10	
Beryllium		75.00000	75.50000	ug/L	1	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1425.000	ug/L	-5	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	790.4000	ug/L	5	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1504.000	ug/L	0	10	
Manganese		75.00000	74.20000	ug/L	-1	10	
Molybdenum		750.0000	764.0000	ug/L	2	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	72.00000	ug/L	-4	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	741.0000	ug/L	-1	10	
Vanadium		375.0000	349.0000	ug/L	-7	10	
Zinc		75.00000	77.00000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834098

Run Name :
Filename : tr211741

Injected : 29-JUL-2003 15:28
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	505.4000	ug/L	1	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	50.60000	ug/L	1	10	
Calcium		1000.000	910.4000	ug/L	-9	10	
Chromium		100.0000	96.90000	ug/L	-3	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	97.40000	ug/L	-3	10	
Iron		500.0000	527.5000	ug/L	6	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	993.7000	ug/L	-1	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	47.20000	ug/L	-6	10	
Thallium		250.0000	254.0000	ug/L	2	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	229.0000	ug/L	-8	10	
Zinc		50.00000	53.80000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834110

Run Name :
Filename : tr211753

Injected : 29-JUL-2003 16:17
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	774.9000	ug/L	3	10	
Antimony		750.0000	788.0000	ug/L	5	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	77.00000	ug/L	3	10	
Cadmium		75.00000	73.30000	ug/L	-2	10	
Calcium		1500.000	1494.000	ug/L	0	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	777.2000	ug/L	4	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1521.000	ug/L	1	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	747.0000	ug/L	0	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	74.40000	ug/L	-1	10	
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834122

Run Name :
Filename : tr211765

Injected : 29-JUL-2003 17:18
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	517.8000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	50.70000	ug/L	1	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	955.3000	ug/L	-4	10	
Chromium		100.0000	98.60000	ug/L	-1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	98.40000	ug/L	-2	10	
Iron		500.0000	505.3000	ug/L	1	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1041.000	ug/L	4	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.70000	ug/L	-1	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	51.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834134

Run Name :
Filename : tr211777

Injected : 29-JUL-2003 18:13
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	752.0000	ug/L	0	10	
Antimony		750.0000	879.0000	ug/L	17	10	1 ***
Arsenic		375.0000	397.0000	ug/L	6	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	81.10000	ug/L	8	10	
Cadmium		75.00000	78.50000	ug/L	5	10	
Calcium		1500.000	1600.000	ug/L	7	10	
Chromium		150.0000	163.0000	ug/L	9	10	
Cobalt		375.0000	391.0000	ug/L	4	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	833.3000	ug/L	11	10	1 ***
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1617.000	ug/L	8	10	
Manganese		75.00000	77.90000	ug/L	4	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	400.0000	ug/L	7	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	73.80000	ug/L	-2	10	
Thallium		375.0000	376.0000	ug/L	0	10	
Titanium		750.0000	773.0000	ug/L	3	10	
Vanadium		375.0000	381.0000	ug/L	2	10	
Zinc		75.00000	82.80000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834145

Run Name :
Filename : tr211788

Injected : 29-JUL-2003 18:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	547.3000	ug/L	9	10	
Antimony		500.0000	552.0000	ug/L	10	10	
Arsenic		250.0000	273.0000	ug/L	9	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	55.80000	ug/L	12	10	1 ***
Cadmium		50.00000	54.50000	ug/L	9	10	
Calcium		1000.000	955.7000	ug/L	-4	10	
Chromium		100.0000	113.0000	ug/L	13	10	1 ***
Cobalt		250.0000	266.0000	ug/L	6	10	
Copper		100.0000	97.50000	ug/L	-3	10	
Iron		500.0000	569.6000	ug/L	14	10	1 ***
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1075.000	ug/L	8	10	
Manganese		50.00000	51.10000	ug/L	2	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	273.0000	ug/L	9	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	48.70000	ug/L	-3	10	
Thallium		250.0000	263.0000	ug/L	5	10	
Titanium		500.0000	529.0000	ug/L	6	10	
Vanadium		250.0000	257.0000	ug/L	3	10	
Zinc		50.00000	60.60000	ug/L	21	10	1 ***

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834003
Filename: tr211643

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 29-JUL-2003 07:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.1500]		60.00000	ug/L	<	RL
Arsenic	[1.6700]		5.000000	ug/L	<	RL
Barium	[0.0850]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[16.690]		500.0000	ug/L	<	RL
Chromium	[0.0540]		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.2770]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.6980]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[5.8500]		20.00000	ug/L	<	RL
Nickel	[0.0810]		20.00000	ug/L	<	RL
Selenium	[1.9500]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.3900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834015
Filename: tr211655

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 08:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[1.1700]	5.000000	ug/L	<RL		
Barium	[0.0110]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[52.370]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4940]	10.00000	ug/L	<RL		
Copper	[1.8500]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[1.1800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.6000]	5.000000	ug/L	<RL		
Titanium	[1.2300]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834027
Filename: tr211667

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 09:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[1.1000]		60.00000	ug/L	<	RL
Arsenic	[2.0800]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[67.300]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[1.9500]		10.00000	ug/L	<	RL
Iron	[10.260]		100.0000	ug/L	<	RL
Lead	[0.0180]		3.000000	ug/L	<	RL
Magnesium	[8.7480]		500.0000	ug/L	<	RL
Manganese	[0.1340]		10.00000	ug/L	<	RL
Molybdenum	[3.3900]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[3.9200]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[3.0300]		5.000000	ug/L	<	RL
Titanium	[1.9700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834039
Filename: tr211679

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 10:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[5.9600]	60.00000	ug/L	<RL		
Arsenic	[3.3000]	5.000000	ug/L	<RL		
Barium	[0.1710]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[67.790]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.8310]	10.00000	ug/L	<RL		
Copper	[2.1700]	10.00000	ug/L	<RL		
Iron	[9.9950]	100.0000	ug/L	<RL		
Lead	[1.1100]	3.000000	ug/L	<RL		
Magnesium	[18.700]	500.0000	ug/L	<RL		
Manganese	[0.0360]	10.00000	ug/L	<RL		
Molybdenum	[8.3300]	20.00000	ug/L	<RL		
Nickel	[0.4080]	20.00000	ug/L	<RL		
Selenium	[1.5200]	5.000000	ug/L	<RL		
Silver	[0.7910]	5.000000	ug/L	<RL		
Thallium	[4.3300]	5.000000	ug/L	<RL		
Titanium	[2.2300]	10.00000	ug/L	<RL		
Vanadium	[0.0090]	10.00000	ug/L	<RL		
Zinc	[0.1180]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834051
Filename: tr211692

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.0175]	100.0000	ug/L	<RL		
Antimony	[24.600]	60.00000	ug/L	<RL		
Arsenic	[1.6900]	5.000000	ug/L	<RL		
Barium	[0.1600]	10.00000	ug/L	<RL		
Beryllium	[0.0360]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[29.750]	500.0000	ug/L	<RL		
Chromium	[0.5780]	10.00000	ug/L	<RL		
Cobalt	[0.9320]	10.00000	ug/L	<RL		
Copper	[1.6200]	10.00000	ug/L	<RL		
Iron	[8.2620]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[1.4240]	500.0000	ug/L	<RL		
Manganese	[0.0040]	10.00000	ug/L	<RL		
Molybdenum	[2.2600]	20.00000	ug/L	<RL		
Nickel	[0.6040]	20.00000	ug/L	<RL		
Selenium	[3.3900]	5.000000	ug/L	<RL		
Silver	[0.3250]	5.000000	ug/L	<RL		
Thallium	[0.1300]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.0550]	10.00000	ug/L	<RL		
Zinc	[0.1510]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834063
Filename: tr211704

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 12:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[33.170]	100.0000	ug/L	<RL		
Antimony	[0.8910]	60.00000	ug/L	<RL		
Arsenic	[3.5700]	5.000000	ug/L	<RL		
Barium	[0.0390]	10.00000	ug/L	<RL		
Beryllium	[0.6740]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[11.100]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4860]	10.00000	ug/L	<RL		
Copper	[0.4630]	10.00000	ug/L	<RL		
Iron	[2.6330]	100.0000	ug/L	<RL		
Lead	[0.8090]	3.000000	ug/L	<RL		
Magnesium	[0.2709]	500.0000	ug/L	<RL		
Manganese	[0.1280]	10.00000	ug/L	<RL		
Molybdenum	[0.9820]	20.00000	ug/L	<RL		
Nickel	[0.2390]	20.00000	ug/L	<RL		
Selenium	[1.9100]	5.000000	ug/L	<RL		
Silver	[0.1220]	5.000000	ug/L	<RL		
Thallium	[4.8600]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4290]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834075
Filename: tr211717

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 13:43

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[66.600]	100.0000	ug/L	<RL		
Antimony	[46.200]	60.00000	ug/L	<RL		
Arsenic	[3.5300]	5.000000	ug/L	<RL		
Barium	[0.1060]	10.00000	ug/L	<RL		
Beryllium	[0.4720]	2.000000	ug/L	<RL		
Cadmium	[0.0420]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.0140]	10.00000	ug/L	<RL		
Cobalt	[0.7770]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.3550]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[2.0500]	500.0000	ug/L	<RL		
Manganese	[0.0540]	10.00000	ug/L	<RL		
Molybdenum	[3.7900]	20.00000	ug/L	<RL		
Nickel	[0.6020]	20.00000	ug/L	<RL		
Selenium	[3.1800]	5.000000	ug/L	<RL		
Silver	[0.2640]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[0.2370]	10.00000	ug/L	<RL		
Vanadium	[0.3990]	10.00000	ug/L	<RL		
Zinc	[0.8020]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834087
Filename: tr211730

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 14:42

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[5.0500]	60.00000	ug/L	<RL	
Arsenic	[3.1300]	5.000000	ug/L	<RL	
Barium	[0.2330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.5950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.6480]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[23.210]	100.0000	ug/L	<RL	
Lead	[2.8900]	3.000000	ug/L	<RL	
Magnesium	[9.5680]	500.0000	ug/L	<RL	
Manganese	[0.5710]	10.00000	ug/L	<RL	
Molybdenum	[8.0600]	20.00000	ug/L	<RL	
Nickel	[0.3270]	20.00000	ug/L	<RL	
Selenium	[3.0500]	5.000000	ug/L	<RL	
Silver	[0.1750]	5.000000	ug/L	<RL	
Thallium	[1.3200]	5.000000	ug/L	<RL	
Titanium	[1.9200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834099
Filename: tr211742

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 15:32

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[16.000]	100.0000	ug/L	<	RL
Antimony	[21.600]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1760]	10.00000	ug/L	<	RL
Beryllium	[1.2000]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.5380]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[18.690]	100.0000	ug/L	<	RL
Lead	[2.3300]	3.000000	ug/L	<	RL
Magnesium	[6.0890]	500.0000	ug/L	<	RL
Manganese	[0.3780]	10.00000	ug/L	<	RL
Molybdenum	[7.0200]	20.00000	ug/L	<	RL
Nickel	[0.3340]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.6200]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.5700]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834111
Filename: tr211754

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 16:31

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[84.190]	100.0000	ug/L	<RL	
Antimony	[51.900]	60.00000	ug/L	<RL	
Arsenic	[1.7800]	5.000000	ug/L	<RL	
Barium	[0.1280]	10.00000	ug/L	<RL	
Beryllium	[1.1100]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.1900]	3.000000	ug/L	<RL	
Magnesium	[4.2850]	500.0000	ug/L	<RL	
Manganese	[0.0790]	10.00000	ug/L	<RL	
Molybdenum	[3.9900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.4000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.7970]	10.00000	ug/L	<RL	
Vanadium	[0.0340]	10.00000	ug/L	<RL	
Zinc	[1.3900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834123
Filename: tr211766

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 17:24

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[1.9140]	100.0000	ug/L	<RL		
Antimony	[21.200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0610]	10.00000	ug/L	<RL		
Beryllium	[0.0950]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.3540]	10.00000	ug/L	<RL		
Cobalt	[0.2350]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[6.6030]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[19.000]	500.0000	ug/L	<RL		
Manganese	[0.1280]	10.00000	ug/L	<RL		
Molybdenum	[2.0600]	20.00000	ug/L	<RL		
Nickel	[0.4380]	20.00000	ug/L	<RL		
Selenium	[0.0300]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[0.9090]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.4400]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834136
Filename: tr211779

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 18:23

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[54.760]	100.0000	ug/L	<RL		
Antimony	[8.2700]	60.00000	ug/L	<RL		
Arsenic	[2.4600]	5.000000	ug/L	<RL		
Barium	[0.1830]	10.00000	ug/L	<RL		
Beryllium	[1.4400]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[5.7700]	10.00000	ug/L	<RL		
Cobalt	[0.4560]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[61.050]	100.0000	ug/L	<RL		
Lead	[1.1800]	3.000000	ug/L	<RL		
Magnesium	[11.030]	500.0000	ug/L	<RL		
Manganese	[0.5910]	10.00000	ug/L	<RL		
Molybdenum	[0.2010]	20.00000	ug/L	<RL		
Nickel	[0.2600]	20.00000	ug/L	<RL		
Selenium	5.990000	5.000000	ug/L	<RL	d	***
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[9.0000]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[5.9500]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834147
Filename: tr211790

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 19:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[87.350]	100.0000	ug/L	<RL	
Antimony	[8.9000]	60.00000	ug/L	<RL	
Arsenic	[1.5800]	5.000000	ug/L	<RL	
Barium	[0.1560]	10.00000	ug/L	<RL	
Beryllium	2.290000	2.000000	ug/L	<RL	d ***
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[6.4900]	10.00000	ug/L	<RL	
Cobalt	[0.3280]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[77.120]	100.0000	ug/L	<RL	
Lead	[0.0410]	3.000000	ug/L	<RL	
Magnesium	[7.9250]	500.0000	ug/L	<RL	
Manganese	[0.4150]	10.00000	ug/L	<RL	
Molybdenum	[1.6100]	20.00000	ug/L	<RL	
Nickel	[0.1900]	20.00000	ug/L	<RL	
Selenium	[0.0750]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	10.00000	10.00000	ug/L	<RL	d ***
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[6.5800]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834005

Run Name :
Filename : tr211645

Injected : 29-JUL-2003 07:39
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	500800.0	ug/L	0			
Antimony	500.0000	444.0000	ug/L	-11	20		
Arsenic	500.0000	538.0000	ug/L	8	20		
Barium	500.0000	485.0000	ug/L	-3	20		
Beryllium	500.0000	504.0000	ug/L	1	20		
Cadmium	1000.000	947.0000	ug/L	-5	20		
Calcium	500000.0	463700.0	ug/L	-7			
Chromium	500.0000	468.0000	ug/L	-6	20		
Cobalt	500.0000	473.0000	ug/L	-5	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	181900.0	ug/L	-9			
Lead	1000.000	833.0000	ug/L	-17	20		
Magnesium	500000.0	514000.0	ug/L	3			
Manganese	500.0000	482.0000	ug/L	-4	20		
Molybdenum	500.0000	452.0000	ug/L	-10	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	481.0000	ug/L	-4	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	466.0000	ug/L	-7	20		
Titanium	20000.00	2020.000	ug/L	-90			
Vanadium	500.0000	485.0000	ug/L	-3	20		
Zinc	1000.000	995.0000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834037

Run Name :
Filename : tr211677

Injected : 29-JUL-2003 10:16
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	539500.0	ug/L	8			
Antimony	500.0000	449.0000	ug/L	-10	20		
Arsenic	500.0000	538.0000	ug/L	8	20		
Barium	500.0000	497.0000	ug/L	-1	20		
Beryllium	500.0000	508.0000	ug/L	2	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	444100.0	ug/L	-11			
Chromium	500.0000	479.0000	ug/L	-4	20		
Cobalt	500.0000	476.0000	ug/L	-5	20		
Copper	500.0000	523.0000	ug/L	5	20		
Iron	200000.0	186400.0	ug/L	-7			
Lead	1000.000	850.0000	ug/L	-15	20		
Magnesium	500000.0	521500.0	ug/L	4			
Manganese	500.0000	478.0000	ug/L	-4	20		
Molybdenum	500.0000	465.0000	ug/L	-7	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	502.0000	ug/L	0	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	461.0000	ug/L	-8	20		
Titanium	20000.00	2030.000	ug/L	-90			
Vanadium	500.0000	488.0000	ug/L	-2	20		
Zinc	1000.000	1010.000	ug/L	1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834121

Run Name :
Filename : tr211764

Injected : 29-JUL-2003 17:10
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	479200.0	ug/L	-4			
Antimony	500.0000	486.0000	ug/L	-3		20	
Arsenic	500.0000	569.0000	ug/L	14		20	
Barium	500.0000	519.0000	ug/L	4		20	
Beryllium	500.0000	500.0000	ug/L	0		20	
Cadmium	1000.000	1010.000	ug/L	1		20	
Calcium	500000.0	457600.0	ug/L	-8			
Chromium	500.0000	487.0000	ug/L	-3		20	
Cobalt	500.0000	488.0000	ug/L	-2		20	
Copper	500.0000	538.0000	ug/L	8		20	
Iron	200000.0	189500.0	ug/L	-5			
Lead	1000.000	907.0000	ug/L	-9		20	
Magnesium	500000.0	526700.0	ug/L	5			
Manganese	500.0000	489.0000	ug/L	-2		20	
Molybdenum	500.0000	487.0000	ug/L	-3		20	
Nickel	1000.000	1070.000	ug/L	7		20	
Selenium	500.0000	529.0000	ug/L	6		20	
Silver	1000.000	1050.000	ug/L	5		20	
Thallium	500.0000	503.0000	ug/L	1		20	
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	502.0000	ug/L	0		20	
Zinc	1000.000	1040.000	ug/L	4		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834148

Run Name :
Filename : tr211791

Injected : 29-JUL-2003 19:09
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	491500.0	ug/L	-2			
Antimony	500.0000	619.0000	ug/L	24	20	#	***
Arsenic	500.0000	595.0000	ug/L	19	20		
Barium	500.0000	513.0000	ug/L	3	20		
Beryllium	500.0000	520.0000	ug/L	4	20		
Cadmium	1000.000	1080.000	ug/L	8	20		
Calcium	500000.0	479600.0	ug/L	-4			
Chromium	500.0000	513.0000	ug/L	3	20		
Cobalt	500.0000	516.0000	ug/L	3	20		
Copper	500.0000	524.0000	ug/L	5	20		
Iron	200000.0	192200.0	ug/L	-4			
Lead	1000.000	965.0000	ug/L	-4	20		
Magnesium	500000.0	546600.0	ug/L	9			
Manganese	500.0000	504.0000	ug/L	1	20		
Molybdenum	500.0000	517.0000	ug/L	3	20		
Nickel	1000.000	1130.000	ug/L	13	20		
Selenium	500.0000	536.0000	ug/L	7	20		
Silver	1000.000	863.0000	ug/L	-14	20		
Thallium	500.0000	515.0000	ug/L	3	20		
Titanium	20000.00	2130.000	ug/L	-89			
Vanadium	500.0000	519.0000	ug/L	4	20		
Zinc	1000.000	1100.000	ug/L	10	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 29-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73302834

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr2111641 CS		29-JUL-2003 07:14	1.0	1.0		1	
002	tr2111642 ICV		29-JUL-2003 07:22	1.0	1.0		2	
003	tr2111643 ICB		29-JUL-2003 07:26	1.0	1.0			
004	tr2111644 CRI		29-JUL-2003 07:31	1.0	1.0		3	
005	tr2111645 ICSAB		29-JUL-2003 07:39	1.0	1.0		4	4:MG=514000
006	tr2111646 SAMPLE	166556-001	83188 Miscel	29-JUL-2003 07:45	1.0	48.54369		
007	tr2111647 SAMPLE	166556-002	83188 Miscel	29-JUL-2003 07:49	1.0	46.51163		
008	tr2111648 SAMPLE	166556-003	83188 Miscel	29-JUL-2003 07:53	1.0	45.24887		
009	tr2111649 SAMPLE	166550-002	83188 Soil	29-JUL-2003 07:57	1.0	42.91845		
010	tr2111650 SAMPLE	166561-014	83188 Soil	29-JUL-2003 08:01	1.0	44.05286	1	1:FE=125500
011	tr2111651 SAMPLE	166561-029	83188 Soil	29-JUL-2003 08:05	1.0	42.55319	2	1:FE=164600
012	tr2111652 SAMPLE	166561-030	83188 Soil	29-JUL-2003 08:09	1.0	48.54369	1	1:FE=198400
013	tr2111653 SAMPLE	166561-029	83188 Soil	29-JUL-2003 08:13	1.0	42.55319	3	1:FE=170300
014	tr2111654 CCV		29-JUL-2003 08:26	1.0	1.0		5	1:FE=197100
015	tr2111655 CCB		29-JUL-2003 08:38	1.0	1.0			
016	tr2111656 SAMPLE	166561-042	83188 Soil	29-JUL-2003 08:42	1.0	45.24887	2	2:FE=183400
017	tr2111657 SAMPLE	166551-003	83188 Soil	29-JUL-2003 08:46	1.0	40.32258		4:FE=587000
018	tr2111658 SAMPLE	166551-006	83188 Soil	29-JUL-2003 08:50	1.0	43.66812		4:FE=566500
019	tr2111659 SAMPLE	166551-009	83188 Soil	29-JUL-2003 08:54	1.0	44.24779		5:FE=531300
020	tr2111660 SAMPLE	166561-014	83188 Soil	29-JUL-2003 09:00	10.0	44.05286	1	
021	tr2111661 SAMPLE	166561-029	83188 Soil	29-JUL-2003 09:03	10.0	42.55319		
022	tr2111662 SAMPLE	166561-030	83188 Soil	29-JUL-2003 09:07	10.0	48.54369	1	
023	tr2111663 SAMPLE	166561-042	83188 Soil	29-JUL-2003 09:11	10.0	45.24887	3	
024	tr2111664 SAMPLE	166478-002	83128 Water	29-JUL-2003 09:16	1.0	1.0	1	
025	tr2111665 SAMPLE	166478-003	83128 Water	29-JUL-2003 09:19	1.0	1.0	1	1:CA=263000
026	tr2111666 CCV		29-JUL-2003 09:28	1.0	1.0		6	
027	tr2111667 CCB		29-JUL-2003 09:33	1.0	1.0			
028	tr2111668 SAMPLE	166478-002	83128 Water	29-JUL-2003 09:37	1.0	1.0		
029	tr2111669 SAMPLE	166478-003	83128 Water	29-JUL-2003 09:41	1.0	1.0		1:CA=263200
030	tr2111670 SAMPLE	166478-004	83128 Water	29-JUL-2003 09:45	1.0	1.0		
031	tr2111671 SAMPLE	166478-005	83128 Water	29-JUL-2003 09:49	1.0	1.0		
032	tr2111672 SAMPLE	166478-006	83128 Water	29-JUL-2003 09:53	1.0	1.0	1	2:CA=951900

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: *mesw* Date: *7/9/03*

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73302834 Instrument: MET07 TJA Trace ICP Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr211673	PDS	QC220466	83188	Soil	29-JUL-2003	09:58	1.0	42.19409			7	8	2:FE=183700
034	tr211674	SAMPLE	166478-006	83128	Water	29-JUL-2003	10:01	1.0	1.0	1				2:CA=958200
035	tr211675	MSS	166550-001	83188	Soil	29-JUL-2003	10:05	10.0	42.19409					
036	tr211676	SER	QC220341	83188	Soil	29-JUL-2003	10:09	50.0	42.19409					
037	tr211677	ICSAB				29-JUL-2003	10:16	1.0	1.0			4		4:AL=539500
038	tr211678	CCV				29-JUL-2003	10:23	1.0	1.0			6		
039	tr211679	CCB				29-JUL-2003	10:28	1.0	1.0					
040	tr211680	BLANK	QC220325	83186	Soil	29-JUL-2003	10:36	1.0	50.0					
041	tr211681	BS	QC220326	83186	Soil	29-JUL-2003	10:40	1.0	50.0					
042	tr211682	BSD	QC220327	83186	Soil	29-JUL-2003	10:44	1.0	50.0					
043	tr211683	MSS	166535-051	83186	Soil	29-JUL-2003	10:47	1.0	47.39336	1				1:FE=202500
044	tr211684	MSS	166535-051	83186	Soil	29-JUL-2003	10:52	10.0	47.39336	1				
045	tr211685	SER	QC220330	83186	Soil	29-JUL-2003	10:56	5.0	47.39336					
046	tr211686	SER	QC220330	83186	Soil	29-JUL-2003	11:00	5.0	47.39336					2:FE=395700
047	tr211687	MS	QC220328	83186	Soil	29-JUL-2003	11:06	1.0	46.94836					2:FE=400100
048	tr211689	MSD	QC220329	83186	Soil	29-JUL-2003	11:15	1.0	47.39336					1:FE=165100
049	tr211690	SAMPLE	166535-042	83186	Soil	29-JUL-2003	11:19	1.0	44.64286					
050	tr211691	CCV				29-JUL-2003	11:32	1.0	1.0			5		
051	tr211692	CCB				29-JUL-2003	11:39	1.0	1.0					
052	tr211693	SAMPLE	166535-043	83186	Soil	29-JUL-2003	11:43	1.0	45.04505	1				1:FE=136700
053	tr211694	SAMPLE	166535-043	83186	Soil	29-JUL-2003	11:48	1.0	45.04505					1:FE=139900
054	tr211695	SAMPLE	166535-044	83186	Soil	29-JUL-2003	11:51	1.0	39.68254					1:FE=133500
055	tr211696	SAMPLE	166535-045	83186	Soil	29-JUL-2003	11:55	1.0	43.85965					2:FE=187500
056	tr211697	SAMPLE	166535-046	83186	Soil	29-JUL-2003	11:58	1.0	47.16981					1:FE=158900
057	tr211698	SAMPLE	166535-047	83186	Soil	29-JUL-2003	12:02	1.0	43.85965					1:FE=161300
058	tr211699	SAMPLE	166535-048	83186	Soil	29-JUL-2003	12:05	1.0	45.66210					2:FE=197900
059	tr211700	SAMPLE	166535-049	83186	Soil	29-JUL-2003	12:09	1.0	46.94836					1:FE=157800
060	tr211701	SAMPLE	166535-050	83186	Soil	29-JUL-2003	12:12	1.0	46.72897					1:FE=175300
061	tr211702	SAMPLE	166535-052	83186	Soil	29-JUL-2003	12:16	1.0	42.91845					1:FE=150200
062	tr211703	CCV				29-JUL-2003	12:25	1.0	1.0			9		
063	tr211704	CCB				29-JUL-2003	12:32	1.0	1.0					
064	tr211705	SAMPLE	166535-053	83186	Soil	29-JUL-2003	12:37	1.0	48.30918					1:FE=142800

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: Menu Date: 7/29/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 29-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73302834

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
065	tr211706 SAMPLE	166535-054	83186 Soil	29-JUL-2003 12:41	1.0	44.44444		1:FE=158400
066	tr211707 SAMPLE	166535-055	83186 Soil	29-JUL-2003 12:44	1.0	49.01961		1:FE=139700
067	tr211708 SAMPLE	166535-056	83186 Soil	29-JUL-2003 12:48	1.0	46.29630		1:FE=122200
068	tr211709 SAMPLE	166535-057	83186 Soil	29-JUL-2003 12:51	1.0	49.50495		1:FE=124800
069	tr211710 SAMPLE	166535-058	83186 Soil	29-JUL-2003 12:55	1.0	46.29630		1:FE=132400
070	tr211711 SAMPLE	166535-059	83186 Soil	29-JUL-2003 12:58	1.0	45.24887		1:FE=152100
071	tr211712 SAMPLE	166535-060	83186 Soil	29-JUL-2003 13:03	1.0	46.29630	1	1:FE=145400
072	tr211713 SAMPLE	166535-060	83186 Soil	29-JUL-2003 13:08	10.0	46.29630	1	
073	tr211714 BLANK	QC220248	83172 Water	29-JUL-2003 13:15	1.0	1.0		
074	tr211716 CCV			29-JUL-2003 13:33	1.0	1.0	5	
075	tr211717 CCB			29-JUL-2003 13:43	1.0	1.0		
076	tr211718 BS	QC220249	83172 Water	29-JUL-2003 13:49	1.0	1.0		
077	tr211719 BSD	QC220250	83172 Water	29-JUL-2003 13:53	1.0	1.0		
078	tr211720 BLANK	QC220255	83243 Soil	29-JUL-2003 14:00	1.0	50.0		
079	tr211721 BS	QC220255	83243 Soil	29-JUL-2003 14:03	1.0	50.0		
080	tr211722 BSD	QC220257	83243 Soil	29-JUL-2003 14:07	1.0	50.0		
081	tr211723 MSS	166571-001	83243 Soil	29-JUL-2003 14:10	1.0	42.37288		
082	tr211724 SER	QC220256	83243 Soil	29-JUL-2003 14:14	5.0	42.37288	1	
083	tr211725 MS	QC220258	83243 Soil	29-JUL-2003 14:18	1.0	45.66210		1:AL=117500
084	tr211726 MSD	QC220259	83243 Soil	29-JUL-2003 14:21	1.0	45.87156		1:AL=113000
085	tr211727 SAMPLE	166571-001	83243 Soil	29-JUL-2003 14:25	1.0	48.30918		3:FE=478800
086	tr211729 CCV			29-JUL-2003 14:37	1.0	1.0	6	
087	tr211730 CCB			29-JUL-2003 14:42	1.0	1.0		
088	tr211731 SAMPLE	166571-002	83243 Soil	29-JUL-2003 14:48	1.0	46.08295		3:FE=490200
089	tr211732 SAMPLE	166571-003	83243 Soil	29-JUL-2003 14:51	1.0	47.61905		3:FE=415000
090	tr211733 SAMPLE	166571-004	83243 Soil	29-JUL-2003 14:55	1.0	45.45455		2:FE=398600
091	tr211734 SAMPLE	166571-005	83243 Soil	29-JUL-2003 14:58	1.0	49.01961		3:FE=326500
092	tr211735 SAMPLE	166571-006	83243 Soil	29-JUL-2003 15:02	1.0	46.51163		3:FE=515400
093	tr211736 SAMPLE	166571-007	83243 Soil	29-JUL-2003 15:05	1.0	48.30918		4:FE=502300
094	tr211737 SAMPLE	166571-008	83243 Soil	29-JUL-2003 15:09	1.0	44.44444		3:FE=524300
095	tr211738 SAMPLE	166571-009	83243 Soil	29-JUL-2003 15:12	1.0	46.72897		3:FE=454000
096	tr211739 SAMPLE	166571-010	83243 Soil	29-JUL-2003 15:16	1.0	42.37288		2:FE=463500

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: Ne'el Date: 7/29/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 29-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73302834

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr211740 SAMPLE	166571-011	83243	Soil	29-JUL-2003	15:19	1.0	47.39336					3:FE=510600
098	tr211741 CCV				29-JUL-2003	15:28	1.0	1.0			5		
099	tr211742 CCB				29-JUL-2003	15:32	1.0	1.0					
100	tr211743 SAMPLE	166571-012	83243	Soil	29-JUL-2003	15:41	1.0	41.32231					4:FE=690200
101	tr211744 SAMPLE	166578-002	83243	Soil	29-JUL-2003	15:45	1.0	46.72897					
102	tr211745 SAMPLE	166578-003	83243	Soil	29-JUL-2003	15:48	1.0	46.94836	1				3:FE=273200
103	tr211746 SAMPLE	166578-004	83243	Soil	29-JUL-2003	15:52	1.0	49.75124					
104	tr211747 SAMPLE	166578-005	83243	Soil	29-JUL-2003	15:55	1.0	47.84689	1				3:FE=225000
105	tr211748 SAMPLE	166578-006	83243	Soil	29-JUL-2003	15:59	1.0	48.54369					
106	tr211749 SAMPLE	166578-007	83243	Soil	29-JUL-2003	16:02	1.0	48.07692					
107	tr211750 SAMPLE	166578-008	83243	Soil	29-JUL-2003	16:05	1.0	47.16981					
108	tr211751 SAMPLE	166578-003	83243	Soil	29-JUL-2003	16:09	20.0	46.94836					
109	tr211752 SAMPLE	166578-005	83243	Soil	29-JUL-2003	16:13	20.0	47.84689					
110	tr211753 CCV				29-JUL-2003	16:17	1.0	1.0			6		
111	tr211754 CCB				29-JUL-2003	16:31	1.0	1.0					
112	tr211755 MSS	166495-001	83172	Water	29-JUL-2003	16:37	1.0	1.0	4				2:MG=770000
113	tr211756 MSS	166495-001	83172	Water	29-JUL-2003	16:40	1.0	1.0	3				2:MG=796800
114	tr211757 SER	QC220253	83172	Water	29-JUL-2003	16:44	5.0	1.0					1:MG=151500
115	tr211758 MSS	166495-001	83172	Water	29-JUL-2003	16:48	10.0	1.0					
116	tr211759 SER	QC220253	83172	Water	29-JUL-2003	16:52	50.0	1.0					
117	tr211760 MS	QC220251	83172	Water	29-JUL-2003	16:55	1.0	1.0					2:MG=785900
118	tr211761 MSD	QC220252	83172	Water	29-JUL-2003	16:59	1.0	1.0					2:MG=781800
119	tr211762 SAMPLE	166503-001	83172	Water	29-JUL-2003	17:03	1.0	1.0					
120	tr211763 SAMPLE	166535-026	83172	Water	29-JUL-2003	17:06	1.0	1.0					
121	tr211764 ICSAB				29-JUL-2003	17:10	1.0	1.0			4		4:MG=526700
122	tr211765 CCV				29-JUL-2003	17:18	1.0	1.0			5		
123	tr211766 CCB				29-JUL-2003	17:24	1.0	1.0					
124	tr211767 SAMPLE	166495-002	83172	Water	29-JUL-2003	17:37	1.0	1.0					2:MG=746100
125	tr211768 SAMPLE	166535-026	83172	Water	29-JUL-2003	17:41	1.0	1.0	2				
126	tr211769 SAMPLE	166495-003	83172	Water	29-JUL-2003	17:44	1.0	1.0					2:MG=789300
127	tr211770 SAMPLE	166495-004	83172	Water	29-JUL-2003	17:48	1.0	1.0	1				2:MG=768600
128	tr211771 SAMPLE	166495-005	83172	Water	29-JUL-2003	17:51	1.0	1.0	1				2:MG=778300

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: ME: Wu Date: 7/29/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 29-JUL-2003

Sequence: 73302834 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
129	tr211772	SAMPLE	166547-001	83172	Water	29-JUL-2003	17:55	1.0	1.0					1:CA=1069000
130	tr211773	SAMPLE	166547-002	83172	Water	29-JUL-2003	17:58	1.0	1.0					1:CA=771100
131	tr211774	SAMPLE	166547-003	83172	Water	29-JUL-2003	18:02	1.0	1.0					
132	tr211775	SAMPLE	166547-004	83172	Water	29-JUL-2003	18:05	1.0	1.0					2:CA=225800
133	tr211776	SAMPLE	166547-005	83172	Water	29-JUL-2003	18:08	1.0	1.0					2:CA=276900
134	tr211777	CCV				29-JUL-2003	18:13	1.0	1.0	2		6		
135	tr211778	X	rinse			29-JUL-2003	18:19	1.0	1.0					
136	tr211779	CCB				29-JUL-2003	18:23	1.0	1.0	1				
137	tr211780	SAMPLE	166547-006	83172	Water	29-JUL-2003	18:27	1.0	1.0	1				1:MG=123600
138	tr211781	SAMPLE	166547-007	83172	Water	29-JUL-2003	18:30	1.0	1.0					2:MG=140900
139	tr211782	SAMPLE	166547-008	83172	Water	29-JUL-2003	18:34	1.0	1.0					2:CA=280400
140	tr211783	SAMPLE	166547-009	83172	Water	29-JUL-2003	18:37	1.0	1.0					
141	tr211784	SAMPLE	166547-010	83172	Water	29-JUL-2003	18:41	1.0	1.0					1:MG=111200
142	tr211785	SAMPLE	166507-005	83172	Water	29-JUL-2003	18:44	1.0	1.0	1				1:CA=126400
143	tr211786	SAMPLE	166507-006	83172	Water	29-JUL-2003	18:47	1.0	1.0	1				1:CA=129700
144	tr211787	SAMPLE	166507-007	83172	Water	29-JUL-2003	18:51	1.0	1.0					
145	tr211788	CCV				29-JUL-2003	18:56	1.0	1.0	4		5		
146	tr211789	X	rinse			29-JUL-2003	19:01	1.0	1.0					
147	tr211790	CCB				29-JUL-2003	19:05	1.0	1.0	2				
148	tr211791	ICSAB				29-JUL-2003	19:09	1.0	1.0	1		4		4:MG=546600

Stdts used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: Mei Wu Date: 7/29/03

REPORTING SUMMARY FOR 166535 METALS Water

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N	
166535-026	MET07	07/29/03	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
166535-026	MET07	07/29/03	1.0	+																			
QC220248	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220249	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220250	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220251	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220252	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220253	MET07	07/29/03	5.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	
QC220253	MET07	07/29/03	50.0												+								

Batch Number : 83172 Analysis : N/A Spike #1 ID : 03SS177
 Date Extracted : 25-JUL-2003 Bgroup : ICAP Spike #2 ID : 03SS178
 Extracted by : Patricia V. vergara Units : ml Spike #3 ID :
 Prep Method : 3010 Clean-up :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean	pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166495-001		Roy F. Weston, Inc. - West	Water	50	ml	50	1	1					AS	ms
166495-002		Roy F. Weston, Inc. - West	Water	50	ml	50	1	1					AS	
166495-003		Roy F. Weston, Inc. - West	Water	50	ml	50	1	1					AS	
166495-004		Roy F. Weston, Inc. - West	Water	50	ml	50	1	1					AS	
166495-005		Roy F. Weston, Inc. - West	Water	50	ml	50	1	1					AS	
166503-001		Bay Area Rapid Transit Dist.	Water	50	ml	50	1	1					AG, AS, CD, CR, (more)	
166507-005		LFR Levine Fricke	Water	50	ml	50	1	1					CR	
166507-006		LFR Levine Fricke	Water	50	ml	50	1	1					CR	
166507-007		LFR Levine Fricke	Water	50	ml	50	1	1					CR	
166535-026		Treadwell & Rollo	Water	50	ml	50	1	1					TAL/ICP	
166547-001		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-002		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-003		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-004		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-005		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-006		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-007		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-008		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-009		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166547-010		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
QC220248	BLANK		Water	50	ml	50	1	1					ICAP	
QC220249	BS		Water	50	ml	50	1	1					ICAP	
QC220250	BS		Water	50	ml	50	1	1					ICAP	
QC220251	MS		Water	50	ml	50	1	1					ICAP	
QC220252	MSD		Water	50	ml	50	1	1					ICAP	
QC220253	SER		Water	50	ml	50	1	1					ICAP	

of 166495-001
 of 166495-001
 of 166495-001

Prep Chemist: Patricia Vergara Reviewed By: MM Date: 7/29/03
 Relinquished By: Patricia Vergara Received By: MM Date: 7/29/03

PROJECT H2O Digestion

Continued From Page

07/25/03			Batch# 83172		ICAP/M3010	
SAMPLE ID			Init Vol (ml)	Final Vol (ml)	Filtered YES/NO	Comments
A	166495-	001 MSS	725 50.0	50.0	NO	SPIKES
		002				✓ 0355177 (0.5ml)
		003				✓ 0255178 ↓
		004				
		005				
D	166503-	001				Reagents
B	166507-	005				HNO3 JTBaker# 405050
		006				F.HCL JTBaker# 412028 / 072303
		007				
A	166535-	026				
D	166547	001				
		002				
A		003				
D		004				
		005				
A		006				
D		007				
		008				
A		009				
		010				
	MB QC 220248					
✓	BS 220249					
✓	SSD 220250					
✓	MS 6495-001					
✓	MSD 6495-001					

Continued on Page

Read and Understood By

Patricia Vergara

Signed

07/25/03

Date

MW

Signed

7/29/03

Date

Method Detection Limit Study for EPA 6010B / Dec. 7
Curtis & Tompkins Laboratories

12/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L u

Method Detection Limit Study for EPA 6010B / 200.7 ✓ 6/25/03
 Curtis & Tompkins Laboratories

Instrument: MET07
 Matrix : Water
 Partition : All

Study # : 17730
 Study Date: 20-JUN-2003
 Effective : 25-JUN-2003

Batchnum : 82300
 Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 20.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spiked conc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L Eu

3

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP072303B	Batch#:	83184
Lab ID:	166535-008	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Moisture: 7%

Analyte	Result	RL	Diln Fac
Aluminum	3,700	4.9	1.000
Antimony	ND	2.9	1.000
Arsenic	2.4	0.24	1.000
Barium	33	0.49	1.000
Beryllium	0.14	0.098	1.000
Cadmium	0.86	0.24	1.000
Chromium	22	0.49	1.000
Cobalt	4.6	0.98	1.000
Copper	7.1	0.49	1.000
Iron	7,700	49	10.00
Lead	5.7	0.15	1.000
Magnesium	1,700	24	1.000
Manganese	180	0.49	1.000
Nickel	22	0.98	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	16	0.49	1.000
Zinc	18	0.98	1.000

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB37[2]	Batch#:	83184
Lab ID:	166535-009	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	3,100	4.7	1.000
Antimony	ND	2.8	1.000
Arsenic	2.0	0.23	1.000
Barium	15	0.47	1.000
Beryllium	0.11	0.094	1.000
Cadmium	0.69	0.23	1.000
Chromium	19	0.47	1.000
Cobalt	3.5	0.94	1.000
Copper	3.0	0.47	1.000
Iron	5,900	47	10.00
Lead	1.3	0.14	1.000
Magnesium	1,500	23	1.000
Manganese	97	0.47	1.000
Nickel	19	0.94	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	14	0.47	1.000
Zinc	12	0.94	1.000

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB21[1]	Batch#:	83185
Lab ID:	166535-027	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	3,700	5.0	1.000
Antimony	ND	3.0	1.000
Arsenic	2.0	0.25	1.000
Barium	11	0.50	1.000
Beryllium	ND	0.10	1.000
Cadmium	0.87	0.25	1.000
Chromium	24	0.50	1.000
Cobalt	4.1	1.0	1.000
Copper	2.8	0.50	1.000
Iron	7,000	50	10.00
Lead	2.8	0.15	1.000
Magnesium	1,700	25	1.000
Manganese	120	0.50	1.000
Nickel	19	1.0	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	17	0.50	1.000
Zinc	16	1.0	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB20 [1]	Batch#:	83185
Lab ID:	166535-029	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Moisture: 5%

Analyte	Result	RL	Diln Fac
Aluminum	4,200	4.8	1.000
Antimony	ND	2.9	1.000
Arsenic	1.9	0.24	1.000
Barium	10	0.48	1.000
Beryllium	ND	0.096	1.000
Cadmium	0.94	0.24	1.000
Chromium	34	0.48	1.000
Cobalt	4.2	0.96	1.000
Copper	2.4	0.48	1.000
Iron	7,400	48	10.00
Lead	0.38	0.14	1.000
Magnesium	1,900	24	1.000
Manganese	97	0.48	1.000
Nickel	21	0.96	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	20	0.48	1.000
Zinc	12	0.96	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,100	4.8	1.000
Antimony	ND	2.9	1.000
Arsenic	2.7	0.24	1.000
Barium	17	0.48	1.000
Beryllium	ND	0.097	1.000
Cadmium	1.3	0.24	1.000
Chromium	30	0.48	1.000
Cobalt	4.2	0.97	1.000
Copper	5.6	0.48	1.000
Iron	10,000	48	10.00
Lead	33	0.15	1.000
Magnesium	1,800	24	1.000
Manganese	130	0.48	1.000
Nickel	21	0.97	1.000
Selenium	0.69	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	21	0.48	1.000
Zinc	55	0.97	1.000

ND= Not Detected
 RL= Reporting Limit
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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB27[1]	Batch#:	83186
Lab ID:	166535-060	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 1%

Analyte	Result	RL	Diln Fac
Aluminum	3,400	4.7	1.000
Antimony	ND	2.8	1.000
Arsenic	2.4	0.23	1.000
Barium	9.5	0.47	1.000
Beryllium	0.14	0.094	1.000
Cadmium	0.81	0.23	1.000
Chromium	23	0.47	1.000
Cobalt	3.9	0.94	1.000
Copper	2.2	0.47	1.000
Iron	7,100	47	10.00
Lead	0.56	0.14	1.000
Magnesium	1,800	23	1.000
Manganese	93	0.47	1.000
Nickel	21	0.94	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	16	0.47	1.000
Zinc	12	0.94	1.000

ND= Not Detected
 RL= Reporting Limit
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Barium

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Analyzed
LCPSB29 [1]	SAMPLE	166535-001	16	0.47	dry	1%	83184	07/23/03	07/30/03
LCPSB29 [2]	SAMPLE	166535-002	9.7	0.46	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [1]	SAMPLE	166535-003	17	0.46	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [2]	SAMPLE	166535-004	11	0.52	dry	12%	83184	07/23/03	07/30/03
LCPSB36 [1]	SAMPLE	166535-005	9.3	0.46	dry	1%	83184	07/23/03	07/30/03
LCPSB36 [2]	SAMPLE	166535-006	7.0	0.49	dry	2%	83184	07/23/03	07/30/03
LCPSB37 [1]	SAMPLE	166535-007	75	0.46	dry	4%	83184	07/23/03	07/30/03
LCPSB17 [1]	SAMPLE	166535-010	17	0.47	dry	2%	83184	07/23/03	07/30/03
LCPSB17 [2]	SAMPLE	166535-011	13	0.50	dry	7%	83184	07/23/03	07/30/03
LCPSB16 [1]	SAMPLE	166535-012	12	0.48	dry	4%	83184	07/23/03	07/30/03
LCPSB16 [2]	SAMPLE	166535-013	9.1	0.50	dry	3%	83184	07/23/03	07/30/03
LCPSB13 [1] [MSD]	SAMPLE	166535-014	14	0.42	dry	1%	83184	07/23/03	07/30/03
LCPSB13 [2]	SAMPLE	166535-015	8.4	0.48	dry	1%	83184	07/23/03	07/30/03
LCPSB11 [2]	SAMPLE	166535-016	11	0.48	dry	8%	83184	07/23/03	07/30/03
LCPSB11 [1]	SAMPLE	166535-017	8.9	0.51	dry	7%	83184	07/23/03	07/30/03
LCPSB12 [1]	SAMPLE	166535-018	12	0.47	dry	1%	83184	07/23/03	07/30/03
LCPSB12 [2]	SAMPLE	166535-019	10	0.47	dry	3%	83184	07/23/03	07/30/03
LCPSB18 [0.3]	SAMPLE	166535-020	27	0.44	dry	1%	83184	07/23/03	07/30/03
LCPSB18 [1]	SAMPLE	166535-021	20	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB19 [0.3]	SAMPLE	166535-022	7.2	0.46	dry	1%	83185	07/23/03	07/30/03
LCPSB19 [1]	SAMPLE	166535-023	7.9	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB27 [1]	SAMPLE	166535-024	19	0.48	dry	3%	83185	07/23/03	07/30/03
LCPSB27 [2]	SAMPLE	166535-025	13	0.49	dry	2%	83185	07/23/03	07/30/03
LCPSB21 [2.5]	SAMPLE	166535-028	17	0.48	dry	4%	83185	07/23/03	07/30/03
LCPSB20 [2.5]	SAMPLE	166535-030	25	0.47	dry	3%	83185	07/23/03	07/30/03
LCPSB24 [1]	SAMPLE	166535-031	18	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB24 [2.5]	SAMPLE	166535-032	23	0.50	dry	6%	83185	07/23/03	07/30/03
LCPSB25 [1.5]	SAMPLE	166535-033	10	0.50	dry	2%	83185	07/23/03	07/30/03
LCPSB25 [2.5]	SAMPLE	166535-034	18	0.47	dry	3%	83185	07/23/03	07/30/03
LCBSB21 [1]	SAMPLE	166535-035	14	0.47	dry	2%	83185	07/24/03	07/30/03
LCBSB21 [2]	SAMPLE	166535-036	13	0.48	dry	1%	83185	07/24/03	07/30/03
DUP072403A	SAMPLE	166535-037	15	0.46	dry	2%	83185	07/24/03	07/30/03
LCBSB19 [1]	SAMPLE	166535-038	8.4	0.49	dry	7%	83185	07/24/03	07/30/03
LCBSB19 [2]	SAMPLE	166535-039	7.2	0.46	dry	2%	83185	07/24/03	07/30/03
LCBSB35 [1]	SAMPLE	166535-040	17	0.49	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [1]	SAMPLE	166535-041	17	0.49	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [0.3]	SAMPLE	166535-042	32	0.46	dry	2%	83186	07/24/03	07/29/03
LCBSB23 [1]	SAMPLE	166535-043	12	0.46	dry	1%	83186	07/24/03	07/29/03
LCBSB23 [2]	SAMPLE	166535-044	12	0.46	dry	14%	83186	07/24/03	07/29/03
LCBSB24 [1]	SAMPLE	166535-045	110	0.45	dry	2%	83186	07/24/03	07/29/03
DUP072403B	SAMPLE	166535-046	21	0.59	dry	20%	83186	07/24/03	07/29/03
LCBSB24 [2.5]	SAMPLE	166535-047	13	0.45	dry	2%	83186	07/24/03	07/29/03
LCBSB33 [2]	SAMPLE	166535-048	74	0.46	dry	1%	83186	07/24/03	07/29/03
LCBSB33 [1]	SAMPLE	166535-049	40	0.48	dry	2%	83186	07/24/03	07/29/03
LCBSB35 [2]	SAMPLE	166535-050	82	0.48	dry	2%	83186	07/24/03	07/29/03
LCBSB32 [1]	SAMPLE	166535-052	14	0.44	dry	2%	83186	07/24/03	07/29/03
LCBSB31 [0.3]	SAMPLE	166535-053	12	0.49	dry	1%	83186	07/24/03	07/29/03
LCBSB31 [1]	SAMPLE	166535-054	15	0.45	dry	2%	83186	07/24/03	07/29/03
LCBSB29 [0.3]	SAMPLE	166535-055	8.4	0.50	dry	1%	83186	07/24/03	07/29/03
LCBSB29 [1]	SAMPLE	166535-056	7.7	0.48	dry	3%	83186	07/24/03	07/29/03
LCBSB28 [0.3]	SAMPLE	166535-057	9.0	0.50	dry	1%	83186	07/24/03	07/29/03
LCBSB28 [1]	SAMPLE	166535-058	10	0.47	dry	2%	83186	07/24/03	07/29/03
LCBSB27 [0.3]	SAMPLE	166535-059	10	0.46	dry	1%	83186	07/24/03	07/29/03
	BLANK	QC220313	ND	0.50	as received		83184		07/30/03
	BLANK	QC220319	ND	0.50	as received		83185		07/30/03
	BLANK	QC220325	ND	0.50	as received		83186		07/29/03

ND= Not Detected
RL= Reporting Limit
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Copper

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Analyzed
LCPSB29 [1]	SAMPLE	166535-001	3.2	0.47	dry	1%	83184	07/23/03	07/30/03
LCPSB29 [2]	SAMPLE	166535-002	2.1	0.46	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [1]	SAMPLE	166535-003	3.9	0.46	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [2]	SAMPLE	166535-004	2.5	0.52	dry	12%	83184	07/23/03	07/30/03
LCPSB36 [1]	SAMPLE	166535-005	2.0	0.46	dry	1%	83184	07/23/03	07/30/03
LCPSB36 [2]	SAMPLE	166535-006	1.7	0.49	dry	2%	83184	07/23/03	07/30/03
LCPSB37 [1]	SAMPLE	166535-007	14	0.46	dry	4%	83184	07/23/03	07/30/03
LCPSB17 [1]	SAMPLE	166535-010	2.2	0.47	dry	2%	83184	07/23/03	07/30/03
LCPSB17 [2]	SAMPLE	166535-011	2.5	0.50	dry	7%	83184	07/23/03	07/30/03
LCPSB16 [1]	SAMPLE	166535-012	2.3	0.48	dry	4%	83184	07/23/03	07/30/03
LCPSB16 [2]	SAMPLE	166535-013	2.1	0.50	dry	3%	83184	07/23/03	07/30/03
LCPSB13 [1] [MSD]	SAMPLE	166535-014	2.1	0.42	dry	1%	83184	07/23/03	07/30/03
LCPSB13 [2]	SAMPLE	166535-015	2.0	0.48	dry	1%	83184	07/23/03	07/30/03
LCPSB11 [2]	SAMPLE	166535-016	2.2	0.48	dry	8%	83184	07/23/03	07/30/03
LCPSB11 [1]	SAMPLE	166535-017	1.9	0.51	dry	7%	83184	07/23/03	07/30/03
LCPSB12 [1]	SAMPLE	166535-018	2.1	0.47	dry	1%	83184	07/23/03	07/30/03
LCPSB12 [2]	SAMPLE	166535-019	2.0	0.47	dry	3%	83184	07/23/03	07/30/03
LCPSB18 [0.3]	SAMPLE	166535-020	7.4	0.44	dry	1%	83184	07/23/03	07/30/03
LCPSB18 [1]	SAMPLE	166535-021	7.4	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB19 [0.3]	SAMPLE	166535-022	3.5	0.46	dry	1%	83185	07/23/03	07/30/03
LCPSB19 [1]	SAMPLE	166535-023	3.3	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB27 [1]	SAMPLE	166535-024	6.7	0.48	dry	3%	83185	07/23/03	07/30/03
LCPSB27 [2]	SAMPLE	166535-025	2.4	0.49	dry	2%	83185	07/23/03	07/30/03
LCPSB21 [2.5]	SAMPLE	166535-028	6.3	0.48	dry	4%	83185	07/23/03	07/30/03
LCPSB20 [2.5]	SAMPLE	166535-030	9.7	0.47	dry	3%	83185	07/23/03	07/30/03
LCPSB24 [1]	SAMPLE	166535-031	3.9	0.48	dry	2%	83185	07/23/03	07/30/03
LCPSB24 [2.5]	SAMPLE	166535-032	3.5	0.50	dry	6%	83185	07/23/03	07/30/03
LCPSB25 [1.5]	SAMPLE	166535-033	2.8	0.50	dry	2%	83185	07/23/03	07/30/03
LCPSB25 [2.5]	SAMPLE	166535-034	3.5	0.47	dry	3%	83185	07/23/03	07/30/03
LCBSB21 [1]	SAMPLE	166535-035	3.2	0.47	dry	2%	83185	07/24/03	07/30/03
LCBSB21 [2]	SAMPLE	166535-036	4.3	0.48	dry	1%	83185	07/24/03	07/30/03
DUP072403A	SAMPLE	166535-037	5.2	0.46	dry	2%	83185	07/24/03	07/30/03
LCBSB19 [1]	SAMPLE	166535-038	3.1	0.49	dry	7%	83185	07/24/03	07/30/03
LCBSB19 [2]	SAMPLE	166535-039	1.9	0.46	dry	2%	83185	07/24/03	07/30/03
LCBSB35 [1]	SAMPLE	166535-040	6.7	0.49	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [1]	SAMPLE	166535-041	7.7	0.49	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [0.3]	SAMPLE	166535-042	13	0.46	dry	2%	83186	07/24/03	07/29/03
LCBSB23 [1]	SAMPLE	166535-043	3.5	0.46	dry	1%	83186	07/24/03	07/29/03
LCBSB23 [2]	SAMPLE	166535-044	1.9	0.46	dry	14%	83186	07/24/03	07/29/03
LCBSB24 [1]	SAMPLE	166535-045	56	0.45	dry	2%	83186	07/24/03	07/29/03
DUP072403B	SAMPLE	166535-046	3.1	0.59	dry	20%	83186	07/24/03	07/29/03
LCBSB24 [2.5]	SAMPLE	166535-047	2.2	0.45	dry	2%	83186	07/24/03	07/29/03
LCBSB33 [2]	SAMPLE	166535-048	26	0.46	dry	1%	83186	07/24/03	07/29/03
LCBSB33 [1]	SAMPLE	166535-049	19	0.48	dry	2%	83186	07/24/03	07/29/03
LCBSB35 [2]	SAMPLE	166535-050	34	0.48	dry	2%	83186	07/24/03	07/29/03
LCBSB32 [1]	SAMPLE	166535-052	2.1	0.44	dry	2%	83186	07/24/03	07/29/03
LCBSB31 [0.3]	SAMPLE	166535-053	4.6	0.49	dry	1%	83186	07/24/03	07/29/03
LCBSB31 [1]	SAMPLE	166535-054	5.0	0.45	dry	2%	83186	07/24/03	07/29/03
LCBSB29 [0.3]	SAMPLE	166535-055	2.3	0.50	dry	1%	83186	07/24/03	07/29/03
LCBSB29 [1]	SAMPLE	166535-056	2.5	0.48	dry	3%	83186	07/24/03	07/29/03
LCBSB28 [0.3]	SAMPLE	166535-057	2.3	0.50	dry	1%	83186	07/24/03	07/29/03
LCBSB28 [1]	SAMPLE	166535-058	2.2	0.47	dry	2%	83186	07/24/03	07/29/03
LCBSB27 [0.3]	SAMPLE	166535-059	2.2	0.46	dry	1%	83186	07/24/03	07/29/03
	BLANK	QC220313	ND	0.50	as received		83184		07/30/03
	BLANK	QC220319	ND	0.50	as received		83185		07/30/03
	BLANK	QC220325	ND	0.50	as received		83186		07/29/03

ND= Not Detected
 RL= Reporting Limit
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Lead

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basic	Moisture	Batch#	Sampled	Analyzed
LCPSB29[1]	SAMPLE	166535-001	6.9	0.14	dry	1%	83184	07/23/03	07/30/03
LCPSB29[2]	SAMPLE	166535-002	0.47	0.14	dry	2%	83184	07/23/03	07/30/03
LCPSB28[1]	SAMPLE	166535-003	2.5	0.14	dry	2%	83184	07/23/03	07/30/03
LCPSB28[2]	SAMPLE	166535-004	0.75	0.16	dry	12%	83184	07/23/03	07/30/03
LCPSB36[1]	SAMPLE	166535-005	0.67	0.14	dry	1%	83184	07/23/03	07/30/03
LCPSB36[2]	SAMPLE	166535-006	0.39	0.15	dry	2%	83184	07/23/03	07/30/03
LCPSB37[1]	SAMPLE	166535-007	3.5	0.14	dry	4%	83184	07/23/03	07/30/03
LCPSB17[1]	SAMPLE	166535-010	0.69	0.14	dry	2%	83184	07/23/03	07/30/03
LCPSB17[2]	SAMPLE	166535-011	0.54	0.15	dry	7%	83184	07/23/03	07/30/03
LCPSB16[1]	SAMPLE	166535-012	0.49	0.14	dry	4%	83184	07/23/03	07/30/03
LCPSB16[2]	SAMPLE	166535-013	0.22	0.15	dry	3%	83184	07/23/03	07/30/03
LCPSB13[1] [MSD]	SAMPLE	166535-014	0.53	0.13	dry	1%	83184	07/23/03	07/30/03
LCPSB13[2]	SAMPLE	166535-015	0.37	0.14	dry	1%	83184	07/23/03	07/30/03
LCPSB11[2]	SAMPLE	166535-016	0.42	0.14	dry	8%	83184	07/23/03	07/30/03
LCPSB11[1]	SAMPLE	166535-017	0.35	0.15	dry	7%	83184	07/23/03	07/30/03
LCPSB12[1]	SAMPLE	166535-018	0.37	0.14	dry	1%	83184	07/23/03	07/30/03
LCPSB12[2]	SAMPLE	166535-019	0.43	0.14	dry	3%	83184	07/23/03	07/30/03
LCPSB14[0.3]	SAMPLE	166535-020	66	0.13	dry	1%	83184	07/23/03	07/30/03
LCPSB18[1]	SAMPLE	166535-021	43	0.15	dry	2%	83185	07/23/03	07/30/03
LCPSB19[0.3]	SAMPLE	166535-022	2.6	0.14	dry	1%	83185	07/23/03	07/30/03
LCPSB19[1]	SAMPLE	166535-023	4.4	0.14	dry	2%	83185	07/23/03	07/30/03
LCPSB27[1]	SAMPLE	166535-024	14	0.15	dry	3%	83185	07/23/03	07/30/03
LCPSB27[2]	SAMPLE	166535-025	0.84	0.15	dry	2%	83185	07/23/03	07/30/03
LCPSB21[2.5]	SAMPLE	166535-028	4.3	0.15	dry	4%	83185	07/23/03	07/30/03
LCPSB20[2.5]	SAMPLE	166535-030	2.2	0.14	dry	3%	83185	07/23/03	07/30/03
LCPSB24[1]	SAMPLE	166535-031	19	0.15	dry	2%	83185	07/23/03	07/30/03
LCPSB24[2.5]	SAMPLE	166535-032	13	0.15	dry	6%	83185	07/23/03	07/30/03
LCPSB25[1.5]	SAMPLE	166535-033	2.4	0.15	dry	2%	83185	07/23/03	07/30/03

ND= Not Detected
RL= Reporting Limit
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Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Analyzed
LCPSB25 [2.5]	SAMPLE	166535-034	3.3	0.14	dry	3%	83185	07/23/03	07/30/03
LCBSB21 [1]	SAMPLE	166535-035	5.9	0.14	dry	2%	83185	07/24/03	07/30/03
LCBSB21 [2]	SAMPLE	166535-036	20	0.14	dry	1%	83185	07/24/03	07/30/03
DUP072403A	SAMPLE	166535-037	27	0.14	dry	2%	83185	07/24/03	07/30/03
LCBSB19 [1]	SAMPLE	166535-038	8.4	0.15	dry	7%	83185	07/24/03	07/30/03
LCBSB19 [2]	SAMPLE	166535-039	0.51	0.14	dry	2%	83185	07/24/03	07/30/03
LCBSB35 [1]	SAMPLE	166535-040	21	0.15	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [1]	SAMPLE	166535-041	44	0.15	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [0.3]	SAMPLE	166535-042	49	0.14	dry	2%	83186	07/24/03	07/29/03
LCBSB23 [1]	SAMPLE	166535-043	0.71	0.14	dry	1%	83186	07/24/03	07/29/03
LCBSB23 [2]	SAMPLE	166535-044	0.26	0.14	dry	14%	83186	07/24/03	07/29/03
LCBSB24 [1]	SAMPLE	166535-045	6.2	0.13	dry	2%	83186	07/24/03	07/29/03
DUP072403B	SAMPLE	166535-046	0.48	0.18	dry	20%	83186	07/24/03	07/29/03
LCBSB24 [2.5]	SAMPLE	166535-047	0.23	0.13	dry	2%	83186	07/24/03	07/29/03
LCBSB33 [2]	SAMPLE	166535-048	23	0.14	dry	1%	83186	07/24/03	07/29/03
LCBSB33 [1]	SAMPLE	166535-049	9.8	0.14	dry	2%	83186	07/24/03	07/29/03
LCBSB35 [2]	SAMPLE	166535-050	19	0.14	dry	2%	83186	07/24/03	07/29/03
LCBSB34 [1]	SAMPLE	166535-052	2.7	0.13	dry	2%	83186	07/24/03	07/29/03
LCBSB31 [0.3]	SAMPLE	166535-053	26	0.15	dry	1%	83186	07/24/03	07/29/03
LCBSB31 [1]	SAMPLE	166535-054	27	0.14	dry	2%	83186	07/24/03	07/29/03
LCBSB29 [0.3]	SAMPLE	166535-055	2.1	0.15	dry	1%	83186	07/24/03	07/29/03
LCBSB29 [1]	SAMPLE	166535-056	0.69	0.14	dry	3%	83186	07/24/03	07/29/03
LCBSB28 [0.3]	SAMPLE	166535-057	2.7	0.15	dry	1%	83186	07/24/03	07/29/03
LCBSB28 [1]	SAMPLE	166535-058	0.76	0.14	dry	2%	83186	07/24/03	07/29/03
LCBSB27 [0.3]	SAMPLE	166535-059	0.62	0.14	dry	1%	83186	07/24/03	07/29/03
	BLANK	QC220313	ND	0.15	as received		83184		07/30/03
	BLANK	QC220319	ND	0.15	as received		83185		07/30/03
	BLANK	QC220325	ND	0.15	as received		83186		07/29/03

ND= Not Detected
RL= Reporting Limit
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**Antimony**

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Analyzed
LCPSB29 [1]	SAMPLE	166535-001	ND	2.8	dry	1%	83184	07/23/03	07/30/03
LCPSB29 [2]	SAMPLE	166535-002	ND	2.7	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [1]	SAMPLE	166535-003	ND	2.8	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [2]	SAMPLE	166535-004	ND	3.1	dry	12%	83184	07/23/03	07/30/03
LCPSB36 [1]	SAMPLE	166535-005	ND	2.7	dry	1%	83184	07/23/03	07/30/03
LCPSB36 [2]	SAMPLE	166535-006	ND	2.9	dry	2%	83184	07/23/03	07/30/03
LCPSB37 [1]	SAMPLE	166535-007	ND	2.8	dry	4%	83184	07/23/03	07/30/03
LCPSB17 [1]	SAMPLE	166535-010	ND	2.8	dry	2%	83184	07/23/03	07/30/03
LCPSB17 [2]	SAMPLE	166535-011	ND	3.0	dry	7%	83184	07/23/03	07/30/03
LCPSB16 [1]	SAMPLE	166535-012	ND	2.9	dry	4%	83184	07/23/03	07/30/03
LCPSB16 [2]	SAMPLE	166535-013	ND	3.0	dry	3%	83184	07/23/03	07/30/03
LCPSB13 [1] [MSD]	SAMPLE	166535-014	ND	2.5	dry	1%	83184	07/23/03	07/30/03
LCPSB13 [2]	SAMPLE	166535-015	ND	2.9	dry	1%	83184	07/23/03	07/30/03
LCPSB11 [2]	SAMPLE	166535-016	ND	2.9	dry	8%	83184	07/23/03	07/30/03
LCPSB11 [1]	SAMPLE	166535-017	ND	3.0	dry	7%	83184	07/23/03	07/30/03
LCPSB12 [1]	SAMPLE	166535-018	ND	2.8	dry	1%	83184	07/23/03	07/30/03
LCPSB12 [2]	SAMPLE	166535-019	ND	2.8	dry	3%	83184	07/23/03	07/30/03
LCPSB18 [0.3]	SAMPLE	166535-020	ND	2.7	dry	1%	83184	07/23/03	07/30/03
LCPSB18 [1]	SAMPLE	166535-021	ND	2.9	dry	2%	83185	07/23/03	07/30/03
LCPSB19 [0.3]	SAMPLE	166535-022	ND	2.8	dry	1%	83185	07/23/03	07/30/03
LCPSB19 [1]	SAMPLE	166535-023	ND	2.9	dry	2%	83185	07/23/03	07/30/03
LCPSB27 [1]	SAMPLE	166535-024	ND	2.9	dry	3%	83185	07/23/03	07/30/03
LCPSB27 [2]	SAMPLE	166535-025	ND	2.9	dry	2%	83185	07/23/03	07/30/03
LCPSB21 [2.5]	SAMPLE	166535-028	ND	2.9	dry	4%	83185	07/23/03	07/30/03
LCPSB20 [2.5]	SAMPLE	166535-030	ND	2.8	dry	3%	83185	07/23/03	07/30/03
LCPSB24 [1]	SAMPLE	166535-031	ND	2.9	dry	2%	83185	07/23/03	07/30/03
LCPSB24 [2.5]	SAMPLE	166535-032	ND	3.0	dry	6%	83185	07/23/03	07/30/03
LCPSB25 [1.5]	SAMPLE	166535-033	ND	3.0	dry	2%	83185	07/23/03	07/30/03
LCPSB25 [2.5]	SAMPLE	166535-034	ND	2.8	dry	3%	83185	07/23/03	07/30/03
LCBSB21 [1]	SAMPLE	166535-035	ND	2.8	dry	2%	83185	07/24/03	07/30/03
LCBSB21 [2]	SAMPLE	166535-036	ND	2.9	dry	1%	83185	07/24/03	07/30/03
DUP072403A	SAMPLE	166535-037	ND	2.7	dry	2%	83185	07/24/03	07/30/03
LCBSB19 [1]	SAMPLE	166535-038	ND	2.9	dry	7%	83185	07/24/03	07/30/03
LCBSB19 [2]	SAMPLE	166535-039	ND	2.8	dry	2%	83185	07/24/03	07/30/03
LCBSB35 [1]	SAMPLE	166535-040	ND	3.0	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [1]	SAMPLE	166535-041	ND	2.9	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [0.3]	SAMPLE	166535-042	ND	2.7	dry	2%	83186	07/24/03	07/29/03
LCBSB23 [1]	SAMPLE	166535-043	ND	2.7	dry	1%	83186	07/24/03	07/29/03
LCBSB23 [2]	SAMPLE	166535-044	ND	2.8	dry	14%	83186	07/24/03	07/29/03
LCBSB24 [1]	SAMPLE	166535-045	ND	2.7	dry	2%	83186	07/24/03	07/29/03
DUP072403B	SAMPLE	166535-046	ND	3.5	dry	20%	83186	07/24/03	07/29/03
LCBSB24 [2.5]	SAMPLE	166535-047	ND	2.7	dry	2%	83186	07/24/03	07/29/03
LCBSB33 [2]	SAMPLE	166535-048	ND	2.8	dry	1%	83186	07/24/03	07/29/03
LCBSB33 [1]	SAMPLE	166535-049	ND	2.9	dry	2%	83186	07/24/03	07/29/03
LCBSB35 [2]	SAMPLE	166535-050	ND	2.9	dry	2%	83186	07/24/03	07/29/03
LCBSB32 [1]	SAMPLE	166535-052	ND	2.6	dry	2%	83186	07/24/03	07/29/03
LCBSB31 [0.3]	SAMPLE	166535-053	ND	2.9	dry	1%	83186	07/24/03	07/29/03
LCBSB31 [1]	SAMPLE	166535-054	ND	2.7	dry	2%	83186	07/24/03	07/29/03
LCBSB29 [0.3]	SAMPLE	166535-055	ND	3.0	dry	1%	83186	07/24/03	07/29/03
LCBSB29 [1]	SAMPLE	166535-056	ND	2.9	dry	3%	83186	07/24/03	07/29/03
LCBSB28 [0.3]	SAMPLE	166535-057	ND	3.0	dry	1%	83186	07/24/03	07/29/03
LCBSB28 [1]	SAMPLE	166535-058	ND	2.8	dry	2%	83186	07/24/03	07/29/03
LCBSB27 [0.3]	SAMPLE	166535-059	ND	2.7	dry	1%	83186	07/24/03	07/29/03
	BLANK	QC220313	ND	3.0	as received		83184		07/30/03
	BLANK	QC220319	ND	3.0	as received		83185		07/30/03
	BLANK	QC220325	ND	3.0	as received		83186		07/29/03

ND= Not Detected
 RL= Reporting Limit
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Zinc

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Analyzed
LCPSB29 [1]	SAMPLE	166535-001	19	0.94	dry	1%	83184	07/23/03	07/30/03
LCPSB29 [2]	SAMPLE	166535-002	13	0.91	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [1]	SAMPLE	166535-003	15	0.92	dry	2%	83184	07/23/03	07/30/03
LCPSB28 [2]	SAMPLE	166535-004	11	1.0	dry	12%	83184	07/23/03	07/30/03
LCPSB36 [1]	SAMPLE	166535-005	11	0.91	dry	1%	83184	07/23/03	07/30/03
LCPSB36 [2]	SAMPLE	166535-006	9.9	0.98	dry	2%	83184	07/23/03	07/30/03
LCPSB37 [1]	SAMPLE	166535-007	85	0.92	dry	4%	83184	07/23/03	07/30/03
LCPSB17 [1]	SAMPLE	166535-010	18	0.94	dry	2%	83184	07/23/03	07/30/03
LCPSB17 [2]	SAMPLE	166535-011	17	1.0	dry	7%	83184	07/23/03	07/30/03
LCPSB16 [1]	SAMPLE	166535-012	14	0.95	dry	4%	83184	07/23/03	07/30/03
LCPSB16 [2]	SAMPLE	166535-013	11	1.0	dry	3%	83184	07/23/03	07/30/03
LCPSB13 [1] [MSD]	SAMPLE	166535-014	14	0.85	dry	1%	83184	07/23/03	07/30/03
LCPSB13 [2]	SAMPLE	166535-015	11	0.96	dry	1%	83184	07/23/03	07/30/03
LCPSB11 [2]	SAMPLE	166535-016	14	0.96	dry	8%	83184	07/23/03	07/30/03
LCPSB11 [1]	SAMPLE	166535-017	11	1.0	dry	7%	83184	07/23/03	07/30/03
LCPSB12 [1]	SAMPLE	166535-018	13	0.94	dry	1%	83184	07/23/03	07/30/03
LCPSB12 [2]	SAMPLE	166535-019	12	0.93	dry	3%	83184	07/23/03	07/30/03
LCPSB18 [0.3]	SAMPLE	166535-020	53	0.89	dry	1%	83184	07/23/03	07/30/03
LCPSB18 [1]	SAMPLE	166535-021	39	0.97	dry	2%	83185	07/23/03	07/30/03
LCPSB19 [0.3]	SAMPLE	166535-022	19	0.92	dry	1%	83185	07/23/03	07/30/03
LCPSB19 [1]	SAMPLE	166535-023	16	0.96	dry	2%	83185	07/23/03	07/30/03
LCPSB27 [1]	SAMPLE	166535-024	110	0.97	dry	3%	83185	07/23/03	07/30/03
LCPSB27 [2]	SAMPLE	166535-025	11	0.98	dry	2%	83185	07/23/03	07/30/03
LCPSB21 [2.5]	SAMPLE	166535-028	17	0.97	dry	4%	83185	07/23/03	07/30/03
LCPSB20 [2.5]	SAMPLE	166535-030	14	0.93	dry	3%	83185	07/23/03	07/30/03
LCPSB24 [1]	SAMPLE	166535-031	28	0.97	dry	2%	83185	07/23/03	07/30/03
LCPSB24 [2.5]	SAMPLE	166535-032	23	0.99	dry	6%	83185	07/23/03	07/30/03
LCPSB25 [1.5]	SAMPLE	166535-033	16	0.99	dry	2%	83185	07/23/03	07/30/03
LCPSB25 [2.5]	SAMPLE	166535-034	14	0.93	dry	3%	83185	07/23/03	07/30/03
LCBSB21 [1]	SAMPLE	166535-035	17	0.94	dry	2%	83185	07/24/03	07/30/03
LCBSB21 [2]	SAMPLE	166535-036	17	0.95	dry	1%	83185	07/24/03	07/30/03
DUP072403A	SAMPLE	166535-037	18	0.91	dry	2%	83185	07/24/03	07/30/03
LCBSB19 [1]	SAMPLE	166535-038	13	0.98	dry	7%	83185	07/24/03	07/30/03
LCBSB19 [2]	SAMPLE	166535-039	9.8	0.92	dry	2%	83185	07/24/03	07/30/03
LCBSB35 [1]	SAMPLE	166535-040	15	0.99	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [1]	SAMPLE	166535-041	50	0.97	dry	2%	83185	07/24/03	07/30/03
LCBSB37 [0.3]	SAMPLE	166535-042	42	0.91	dry	2%	83186	07/24/03	07/29/03
LCBSB23 [1]	SAMPLE	166535-043	12	0.91	dry	1%	83186	07/24/03	07/29/03
LCBSB23 [2]	SAMPLE	166535-044	11	0.92	dry	14%	83186	07/24/03	07/29/03
LCBSB24 [1]	SAMPLE	166535-045	17	0.90	dry	2%	83186	07/24/03	07/29/03
DUP072403B	SAMPLE	166535-046	19	1.2	dry	20%	83186	07/24/03	07/29/03
LCBSB24 [2.5]	SAMPLE	166535-047	13	0.90	dry	2%	83186	07/24/03	07/29/03
LCBSB33 [2]	SAMPLE	166535-048	24	0.92	dry	1%	83186	07/24/03	07/29/03
LCBSB33 [1]	SAMPLE	166535-049	14	0.96	dry	2%	83186	07/24/03	07/29/03
LCBSB35 [2]	SAMPLE	166535-050	27	0.95	dry	2%	83186	07/24/03	07/29/03
LCBSB32 [1]	SAMPLE	166535-052	22	0.88	dry	2%	83186	07/24/03	07/29/03
LCBSB31 [0.3]	SAMPLE	166535-053	19	0.98	dry	1%	83186	07/24/03	07/29/03
LCBSB31 [1]	SAMPLE	166535-054	17	0.91	dry	2%	83186	07/24/03	07/29/03
LCBSB29 [0.3]	SAMPLE	166535-055	13	0.99	dry	1%	83186	07/24/03	07/29/03
LCBSB29 [1]	SAMPLE	166535-056	11	0.95	dry	3%	83186	07/24/03	07/29/03
LCBSB28 [0.3]	SAMPLE	166535-057	14	1.0	dry	1%	83186	07/24/03	07/29/03
LCBSB28 [1]	SAMPLE	166535-058	12	0.94	dry	2%	83186	07/24/03	07/29/03
LCBSB27 [0.3]	SAMPLE	166535-059	13	0.91	dry	1%	83186	07/24/03	07/29/03
	BLANK	QC220313	ND	1.0	as received		83184		07/30/03
	BLANK	QC220319	ND	1.0	as received		83185		07/30/03
	BLANK	QC220325	ND	1.0	as received		83186		07/29/03

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220313	Batch#:	83184
Matrix:	Soil	Prepared:	07/26/03
Units:	mg/Kg	Analyzed:	07/30/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220319	Batch#:	83185
Matrix:	Soil	Prepared:	07/26/03
Units:	mg/Kg	Analyzed:	07/30/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220325	Batch#:	83186
Matrix:	Soil	Prepared:	07/26/03
Units:	mg/Kg	Analyzed:	07/29/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220314

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	935.0	94	75-125
Antimony	100.0	98.00	98	75-125
Arsenic	50.00	49.00	98	75-125
Barium	100.0	95.00	95	75-125
Beryllium	2.500	2.350	94	75-125
Cadmium	10.00	9.400	94	75-125
Chromium	100.0	92.50	93	75-125
Cobalt	25.00	22.65	91	75-125
Copper	12.50	11.35	91	75-125
Iron	1,000	899.0	90	75-125
Lead	100.0	94.50	95	75-125
Magnesium	1,000	921.0	92	75-125
Manganese	25.00	21.85	87	75-125
Nickel	25.00	23.75	95	75-125
Selenium	50.00	45.70	91	75-125
Silver	10.00	9.000	90	75-125
Thallium	50.00	47.55	95	75-125
Vanadium	25.00	22.90	92	75-125
Zinc	25.00	22.65	91	75-125

Type: BSD Lab ID: QC220315

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	923.5	92	75-125	1	30
Antimony	100.0	96.00	96	75-125	2	30
Arsenic	50.00	48.35	97	75-125	1	30
Barium	100.0	93.00	93	75-125	2	30
Beryllium	2.500	2.330	93	75-125	1	30
Cadmium	10.00	9.250	93	75-125	2	30
Chromium	100.0	91.00	91	75-125	2	30
Cobalt	25.00	22.20	89	75-125	2	30
Copper	12.50	11.15	89	75-125	2	30
Iron	1,000	907.5	91	75-125	1	30
Lead	100.0	93.50	94	75-125	1	30
Magnesium	1,000	912.0	91	75-125	1	30
Manganese	25.00	21.85	87	75-125	0	30
Nickel	25.00	23.45	94	75-125	1	30
Selenium	50.00	45.35	91	75-125	1	30
Silver	10.00	8.750	88	75-125	3	30
Thallium	50.00	46.85	94	75-125	1	30
Vanadium	25.00	22.55	90	75-125	2	30
Zinc	25.00	22.70	91	75-125	0	30

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220320

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	887.5	89	75-125
Antimony	100.0	95.00	95	75-125
Arsenic	50.00	45.85	92	75-125
Barium	100.0	91.50	92	75-125
Beryllium	2.500	2.315	93	75-125
Cadmium	10.00	8.800	88	75-125
Chromium	100.0	92.00	92	75-125
Cobalt	25.00	22.40	90	75-125
Copper	12.50	11.55	92	75-125
Iron	1,000	887.0	89	75-125
Lead	100.0	89.50	90	75-125
Magnesium	1,000	921.0	92	75-125
Manganese	25.00	22.35	89	75-125
Nickel	25.00	22.30	89	75-125
Selenium	50.00	42.65	85	75-125
Silver	10.00	9.200	92	75-125
Thallium	50.00	43.75	88	75-125
Vanadium	25.00	23.05	92	75-125
Zinc	25.00	22.00	88	75-125

Type: BSD Lab ID: QC220321

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	873.0	87	75-125	2	30
Antimony	100.0	93.50	94	75-125	2	30
Arsenic	50.00	45.35	91	75-125	1	30
Barium	100.0	90.50	91	75-125	1	30
Beryllium	2.500	2.275	91	75-125	2	30
Cadmium	10.00	8.650	87	75-125	2	30
Chromium	100.0	90.50	91	75-125	2	30
Cobalt	25.00	22.00	88	75-125	2	30
Copper	12.50	11.40	91	75-125	1	30
Iron	1,000	873.0	87	75-125	2	30
Lead	100.0	87.50	88	75-125	2	30
Magnesium	1,000	902.5	90	75-125	2	30
Manganese	25.00	22.00	88	75-125	2	30
Nickel	25.00	21.90	88	75-125	2	30
Selenium	50.00	41.55	83	75-125	3	30
Silver	10.00	9.050	91	75-125	2	30
Thallium	50.00	43.55	87	75-125	0	30
Vanadium	25.00	22.75	91	75-125	1	30
Zinc	25.00	21.70	87	75-125	1	30



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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC220326

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	901.0	90	75-125
Antimony	100.0	93.50	94	75-125
Arsenic	50.00	43.55	87	75-125
Barium	100.0	87.50	88	75-125
Beryllium	2.500	2.190	88	75-125
Cadmium	10.00	8.350	84	75-125
Chromium	100.0	87.50	88	75-125
Cobalt	25.00	21.30	85	75-125
Copper	12.50	11.15	89	75-125
Iron	1,000	869.0	87	75-125
Lead	100.0	85.00	85	75-125
Magnesium	1,000	876.0	88	75-125
Manganese	25.00	21.10	84	75-125
Nickel	25.00	21.60	86	75-125
Selenium	50.00	41.20	82	75-125
Silver	10.00	8.750	88	75-125
Thallium	50.00	41.35	83	75-125
Vanadium	25.00	21.90	88	75-125
Zinc	25.00	21.15	85	75-125

Type: BSD

Lab ID: QC220327

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	962.5	96	75-125	7	30
Antimony	100.0	97.50	98	75-125	4	30
Arsenic	50.00	47.05	94	75-125	8	30
Barium	100.0	94.00	94	75-125	7	30
Beryllium	2.500	2.350	94	75-125	7	30
Cadmium	10.00	8.900	89	75-125	6	30
Chromium	100.0	93.00	93	75-125	6	30
Cobalt	25.00	22.60	90	75-125	6	30
Copper	12.50	11.85	95	75-125	6	30
Iron	1,000	926.0	93	75-125	6	30
Lead	100.0	89.00	89	75-125	5	30
Magnesium	1,000	933.0	93	75-125	6	30
Manganese	25.00	22.50	90	75-125	6	30
Nickel	25.00	23.05	92	75-125	6	30
Selenium	50.00	42.75	86	75-125	4	30
Silver	10.00	9.300	93	75-125	6	30
Thallium	50.00	44.50	89	75-125	7	30
Vanadium	25.00	23.30	93	75-125	6	30
Zinc	25.00	22.60	90	75-125	7	30

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220314	100.0	95.00	95	75-125		
BSD	QC220315	100.0	93.00	93	75-125	2	30

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220320	100.0	91.50	92	75-125		
BSD	QC220321	100.0	90.50	91	75-125	1	30

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220326	100.0	87.50	88	75-125		
BSD	QC220327	100.0	94.00	94	75-125	7	30

Copper			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220314	12.50	11.35	91	75-125		
BSD	QC220315	12.50	11.15	89	75-125	2	30

Copper			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220320	12.50	11.55	92	75-125		
BSD	QC220321	12.50	11.40	91	75-125	1	30

Copper			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220326	12.50	11.15	89	75-125		
BSD	QC220327	12.50	11.85	95	75-125	6	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220314	100.0	94.50	95	75-125		
BSD	QC220315	100.0	93.50	94	75-125	1	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220320	100.0	89.50	90	75-125		
BSD	QC220321	100.0	87.50	88	75-125	2	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220326	100.0	85.00	85	75-125		
BSD	QC220327	100.0	89.00	89	75-125	5	30

Antimony			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220314	100.0	98.00	98	75-125		
BSD	QC220315	100.0	96.00	96	75-125	2	30

Antimony			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220320	100.0	95.00	95	75-125		
BSD	QC220321	100.0	93.50	94	75-125	2	30

Antimony

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220326	100.0	93.50	94	75-125		
BSD	QC220327	100.0	97.50	98	75-125	4	30

Zinc			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83184
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220314	25.00	22.65	91	75-125		
BSD	QC220315	25.00	22.70	91	75-125	0	30

Zinc			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83185
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220320	25.00	22.00	88	75-125		
BSD	QC220321	25.00	21.70	87	75-125	1	30

Zinc			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83186
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/29/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220326	25.00	21.15	85	75-125		
BSD	QC220327	25.00	22.60	90	75-125	7	30

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB13 [1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC220316

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	4,075	910.0	5,546 >LR	162 NM	75-125
Antimony	0.4168	91.00	67.80	74 *	75-125
Arsenic	1.575	45.50	46.87	100	75-125
Barium	14.09	91.00	107.8	103	75-125
Beryllium	0.1345	2.275	2.371	98	75-125
Cadmium	0.8446	9.100	9.737	98	75-125
Chromium	30.81	91.00	117.8	96	75-125
Cobalt	4.185	22.75	25.66	94	75-125
Copper	2.122	11.38	13.01	96	75-125
Iron	6,761	910.0	8,372 >LR	177 NM	75-125
Lead	0.5305	91.00	89.18	97	75-125
Magnesium	1,783	910.0	2,813	113	75-125
Manganese	129.4	22.75	157.4	123 NM	75-125
Nickel	19.31	22.75	43.41	106	75-125
Selenium	<0.1414	45.50	42.18	93	75-125
Silver	<0.02323	9.100	8.236	91	75-125
Thallium	<0.1313	45.50	44.50	98	75-125
Vanadium	18.12	22.75	41.50	103	75-125
Zinc	14.35	22.75	36.86	99	75-125

Type: MSD
Lab ID: QC220317

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	980.7	5,958 >LR	192 NM	75-125	NC	30
Antimony	98.07	72.57	74 *	75-125	1	30
Arsenic	49.03	50.51	100	75-125	0	30
Barium	98.07	115.7	104	75-125	1	30
Beryllium	2.452	2.555	99	75-125	0	30
Cadmium	9.807	10.49	98	75-125	1	30
Chromium	98.07	127.0	98	75-125	2	30
Cobalt	24.52	27.66	96	75-125	1	30
Copper	12.26	13.97	97	75-125	1	30
Iron	980.7	8,993 >LR	228 NM	75-125	NC	30
Lead	98.07	96.11	97	75-125	0	30
Magnesium	980.7	3,028	127 *	75-125	5	30
Manganese	24.52	169.2	162 NM	75-125	6	30
Nickel	24.52	46.63	111	75-125	3	30
Selenium	49.03	45.55	93	75-125	0	30
Silver	9.807	8.826	90	75-125	1	30
Thallium	49.03	48.05	98	75-125	0	30
Vanadium	24.52	44.57	108	75-125	3	30
Zinc	24.52	39.62	103	75-125	3	30

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference
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Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB18[1]	Batch#:	83185
MSS Lab ID:	166535-021	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type: MS
Lab ID: QC220322

Moisture: 2%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln	Fac
Aluminum	3,368	981.2	5,318	199 *	75-125	10.00	
Antimony	0.6819	98.12	66.23	67 *	75-125	1.000	
Arsenic	2.597	49.06	49.06	95	75-125	1.000	
Barium	19.88	98.12	117.2	99	75-125	1.000	
Beryllium	<0.01531	2.453	2.428	99	75-125	1.000	
Cadmium	1.001	9.812	10.01	92	75-125	1.000	
Chromium	24.66	98.12	122.2	99	75-125	1.000	
Cobalt	4.024	24.53	27.13	94	75-125	1.000	
Copper	7.399	12.26	29.34	179 *	75-125	1.000	
Iron	6,741	981.2	8,629 >LR	192 NM	75-125	1.000	
Lead	42.90	98.12	144.2	103	75-125	1.000	
Magnesium	1,736	981.2	2,955	124	75-125	1.000	
Manganese	133.5	24.53	175.6	172 NM	75-125	1.000	
Nickel	19.25	24.53	45.38	107	75-125	1.000	
Selenium	0.3347	49.06	44.54	90	75-125	1.000	
Silver	<0.02653	9.812	9.125	93	75-125	1.000	
Thallium	<0.1429	49.06	44.59	91	75-125	1.000	
Vanadium	16.97	24.53	43.56	108	75-125	1.000	
Zinc	39.17	24.53	68.19	118	75-125	1.000	

Type: MSD
Lab ID: QC220323

Moisture: 2%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac
Aluminum	976.5	5,253	193 *	75-125	1	30	10.00	
Antimony	97.65	66.40	67 *	75-125	1	30	1.000	
Arsenic	48.82	49.31	96	75-125	1	30	1.000	
Barium	97.65	117.7	100	75-125	1	30	1.000	
Beryllium	2.441	2.451	100	75-125	1	30	1.000	
Cadmium	9.765	10.01	92	75-125	0	30	1.000	
Chromium	97.65	122.5	100	75-125	1	30	1.000	
Cobalt	24.41	27.24	95	75-125	1	30	1.000	
Copper	12.21	29.39	180 *	75-125	0	30	1.000	
Iron	976.5	8,676 >LR	198 NM	75-125	NC	30	1.000	
Lead	97.65	145.5	105	75-125	1	30	1.000	
Magnesium	976.5	2,971	127 *	75-125	1	30	1.000	
Manganese	24.41	176.7	177 NM	75-125	1	30	1.000	
Nickel	24.41	45.60	108	75-125	1	30	1.000	
Selenium	48.82	44.92	91	75-125	1	30	1.000	
Silver	9.765	9.179	94	75-125	1	30	1.000	
Thallium	48.82	44.82	92	75-125	1	30	1.000	
Vanadium	24.41	43.79	110	75-125	1	30	1.000	
Zinc	24.41	68.84	122	75-125	1	30	1.000	

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference
 Page 1 of 1

Target Analyte List Metals

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
MSS Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC220328

Moisture: 2%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	4,082	958.1	5,658 >LR	164 NM	75-125
Antimony	0.8850	95.81	61.80	64 *	75-125
Arsenic	2.650	47.91	47.00	93	75-125
Barium	17.22	95.81	109.2	96	75-125
Beryllium	0.02050	2.395	2.367	98	75-125
Cadmium	1.282	9.581	10.73	99	75-125
Chromium	29.79	95.81	120.2	94	75-125
Cobalt	4.178	23.95	26.68	94	75-125
Copper	5.561	11.98	17.53	100	75-125
Iron	10,320	958.1	18,960 >LR	901 NM	75-125
Lead	33.08	95.81	118.3	89	75-125
Magnesium	1,826	958.1	2,875	109	75-125
Manganese	133.0	23.95	189.2	235 NM	75-125
Nickel	21.28	23.95	50.30	121	75-125
Selenium	0.6867	47.91	40.72	84	75-125
Silver	<0.02653	9.581	8.863	93	75-125
Thallium	<0.1429	47.91	41.34	86	75-125
Vanadium	20.75	23.95	45.61	104	75-125
Zinc	55.13	23.95	87.19	134 *	75-125

Type: MSD
Lab ID: QC220329

Moisture: 2%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	967.2	5,779 >LR	175 NM	75-125	NC	30
Antimony	96.72	63.35	65 *	75-125	2	30
Arsenic	48.36	47.83	93	75-125	1	30
Barium	96.72	111.7	98	75-125	1	30
Beryllium	2.418	2.418	99	75-125	1	30
Cadmium	9.672	10.98	100	75-125	1	30
Chromium	96.72	122.8	96	75-125	1	30
Cobalt	24.18	27.28	96	75-125	1	30
Copper	12.09	17.94	102	75-125	2	30
Iron	967.2	19,350 >LR	934 NM	75-125	NC	30
Lead	96.72	120.4	90	75-125	1	30
Magnesium	967.2	2,937	115	75-125	2	30
Manganese	24.18	193.0	248 NM	75-125	2	30
Nickel	24.18	49.81	118	75-125	1	30
Selenium	48.36	41.59	85	75-125	1	30
Silver	9.672	9.092	94	75-125	2	30
Thallium	48.36	42.17	87	75-125	1	30
Vanadium	24.18	46.57	107	75-125	2	30
Zinc	24.18	87.53	134 *	75-125	0	30

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCPSB13 [1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220316	14.09	91.00	107.8	103	75-125	1%		
MSD	QC220317		98.07	115.7	104	75-125	1%	1	30

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCPSB18[1]	Batch#:	83185
MSS Lab ID:	166535-021	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220322	19.88	98.12	117.2	99	75-125	2%		
MSD	QC220323		97.65	117.7	100	75-125	2%	1	30

Barium			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
MSS Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220328	17.22	95.81	109.2	96	75-125	2%		
MSD	QC220329		96.72	111.7	98	75-125	2%	1	30

Copper			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCPSB13 [1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220316	2.122	11.38	13.01	96	75-125	1%		
MSD	QC220317		12.26	13.97	97	75-125	1%	1	30

Copper

Lab #: 166535 Location: Presidio - Firing Ranges
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analysis: EPA 3050
 EPA 6010B
 Analyte: Copper
 Diln Fac: 1.000
 Field ID: LCPSB18[1]
 Batch#: 83185
 MSS Lab ID: 166535-021
 Sampled: 07/23/03
 Matrix: Soil
 Received: 07/24/03
 Units: mg/Kg
 Prepared: 07/26/03
 Basis: dry
 Analyzed: 07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220322	7.399	12.26	29.34	179 *	75-125	2%		
MSD	QC220323		12.21	29.39	180 *	75-125	2%	0	30

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
 Page 1 of 1

Copper			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
MSS Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220328	5.561	11.98	17.53	100	75-125	2%		
MSD	QC220329		12.09	17.94	102	75-125	2%	2	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCPSB13 [1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220316	0.5305	91.00	89.18	97	75-125	1%		
MSD	QC220317		98.07	96.11	97	75-125	1%	0	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCPSB18 [1]	Batch#:	83185
MSS Lab ID:	166535-021	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220322	42.90	98.12	144.2	103	75-125	2%		
MSD	QC220323		97.65	145.5	105	75-125	2%	1	30

Lead			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
MSS Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220328	33.08	95.81	118.3	89	75-125	2%		
MSD	QC220329		96.72	120.4	90	75-125	2%	1	30

Antimony			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCPSB13 [1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220316	0.4168	91.00	67.80	74 *	75-125	1%		
MSD	QC220317		98.07	72.57	74 *	75-125	1%	1	30

Antimony			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCPSB18[1]	Batch#:	83185
MSS Lab ID:	166535-021	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220322	0.6819	98.12	66.23	67 *	75-125	2%		
MSD	QC220323		97.65	66.40	67 *	75-125	2%	1	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Antimony			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB32 [0.3] [MSD]	Batch#:	83186
MSS Lab ID:	166535-051	Sampled:	07/24/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220328	0.8850	95.81	61.80	64 *	75-125	2%		
MSD	QC220329		96.72	63.35	65 *	75-125	2%	2	30

Zinc			
Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCPSB13[1] [MSD]	Batch#:	83184
MSS Lab ID:	166535-014	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220316	14.35	22.75	36.86	99	75-125	1%		
MSD	QC220317		24.52	39.62	103	75-125	1%	3	30

**Zinc**

Lab #:	166535	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCPSB18[1]	Batch#:	83185
MSS Lab ID:	166535-021	Sampled:	07/23/03
Matrix:	Soil	Received:	07/24/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220322	39.17	24.53	68.19	118	75-125	2%		
MSD	QC220323		24.41	68.84	122	75-125	2%	1	30

Zinc

Lab #: 166535 Location: Presidio - Firing Ranges
 Client: Treadwell & Rollo EPA 3050
 Project#: 2893.07 Analysis: EPA 6010B
 Analyte: Zinc Diln Fac: 1.000
 Field ID: LCBSB32[0.3] [MSD] Batch#: 83186
 MSS Lab ID: 166535-051 Sampled: 07/24/03
 Matrix: Soil Received: 07/24/03
 Units: mg/Kg Prepared: 07/26/03
 Basis: dry Analyzed: 07/29/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220328	55.13	23.95	87.19	134 *	75-125	2%		
MSD	QC220329		24.18	87.53	134 *	75-125	2%	0	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73304285071
Filename : tr211866
IDF : 5.0
PDF : 42.01681
Run type : SER
Samplenum: QC220318
Matrix : Soil
Batchnum : 83184
Inj : 30-JUL-2003 13:26
Units : mg/Kg

MSS : 166535-014

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	73304285068	4030	4.20	4100	21.0	2	10	u
Antimony	73304285068	ND	2.52	ND	12.6	--	10	u
Arsenic	73304285068	1.56	0.210	2.92	1.05	--	10	u
Barium	73304285068	13.9	0.420	14.2	2.10	2	10	u
Beryllium	73304285068	0.133	0.0840	ND	0.420	--	10	u
Cadmium	73304285068	0.836	0.210	ND	1.05	--	10	u
Calcium	73304285068	2450	21.0	2510	105	3	10	u
Chromium	73304285068	30.5	0.420	31.1	2.10	2	10	u
Cobalt	73304285068	4.14	0.840	4.20	4.20	--	10	u
Copper	73304285068	2.10	0.420	2.12	2.10	--	10	u
Iron	*** usable MSS data not found ***							
Lead	73304285069	0.525	0.126	ND	0.630	--	10	u
Magnesium	73304285068	1770	21.0	1820	105	3	10	u
Manganese	73304285068	128	0.420	131	2.10	2	10	u
Molybdenum	73304285068	ND	0.840	ND	4.20	--	10	u
Nickel	73304285068	19.1	0.840	19.7	4.20	3	10	u
Selenium	73304285068	ND	0.210	ND	1.05	--	10	u
Silver	73304285068	ND	0.210	ND	1.05	--	10	u
Thallium	73304285068	ND	0.210	ND	1.05	--	10	u
Vanadium	73304285068	17.9	0.420	18.2	2.10	1	10	u
Zinc	73304285068	14.2	0.840	15.0	4.20	6	10	u
Titanium	73304285068	304	0.420	307	2.10	1	10	u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285070	Seqnum : 73304285072
Filename : tr211865	Filename : tr211867
IDF : 10.0	IDF : 50.0
PDF : 42.01681	PDF : 42.01681
Run type : MSS	Run type : SER
Samplenum: 166535-014	Samplenum: QC220318
Matrix : Soil	Matrix : Soil
Batchnum : 83184	Batchnum : 83184
Inj : 30-JUL-2003 13:22	Inj : 30-JUL-2003 13:40
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3830	42.0	3670	210	4	10		
Antimony	ND	25.2	ND	126	--	10		
Arsenic	ND	2.10	ND	10.5	--	10		
Barium	13.3	4.20	ND	21.0	--	10		
Beryllium	ND	0.840	ND	4.20	--	10		
Cadmium	ND	2.10	ND	10.5	--	10		
Calcium	2370	210	2230	1050	6	10		
Chromium	29.3	4.20	38.0	21.0	--	10		ab*
Cobalt	ND	8.40	ND	42.0	--	10		
Copper	ND	4.20	ND	21.0	--	10		
Iron	6690	42.0	6520	210	3	10		u
Lead	ND	1.26	ND	6.30	--	10		
Magnesium	1710	210	1640	1050	--	10		
Manganese	123	4.20	118	21.0	4	10		
Molybdenum	ND	8.40	ND	42.0	--	10		
Nickel	18.3	8.40	ND	42.0	--	10		
Selenium	ND	2.10	ND	10.5	--	10		
Silver	ND	2.10	ND	10.5	--	10		
Thallium	ND	2.10	ND	10.5	--	10		
Vanadium	16.7	4.20	ND	21.0	--	10		
Zinc	14.3	8.40	ND	42.0	--	10		
Titanium	286	4.20	279	21.0	2	10		

a=rsd out b=noncompliant u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73302834043	Seqnum : 73302834045
Filename : tr211683	Filename : tr211685
IDF : 1.0	IDF : 5.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166535-051	Samplenum: QC220330
Matrix : Soil	Matrix : Soil
Batchnum : 83186	Batchnum : 83186
Inj : 29-JUL-2003 10:47	Inj : 29-JUL-2003 10:56
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	4000	4.74	3710	23.7	7	10		u
Antimony	ND	2.84	ND	14.2	--	10		u
Arsenic	2.60	0.237	2.17	1.18	16	10		f
Barium	16.9	0.474	15.7	2.37	7	10		u
Beryllium	ND	0.0948	ND	0.474	--	10		u
Cadmium	1.26	0.237	ND	1.18	--	10		u
Calcium	2740	23.7	2620	118	5	10		u
Chromium	29.2	0.474	27.3	2.37	7	10		u
Cobalt	4.09	0.948	ND	4.74	--	10		u
Copper	5.45	0.474	5.33	2.37	2	10		u
Iron	*** usable MSS data not found ***							
Lead	32.4	0.142	30.3	0.711	6	10		u
Magnesium	1790	23.7	1710	118	4	10		u
Manganese	130	0.474	123	2.37	6	10		u
Molybdenum	ND	0.948	ND	4.74	--	10		u
Nickel	20.9	0.948	20.0	4.74	4	10		u
Selenium	0.673	0.237	1.50	1.18	--	10		ab*
Silver	ND	0.237	ND	1.18	--	10		u
Thallium	ND	0.237	ND	1.18	--	10		u
Vanadium	20.3	0.474	18.8	2.37	8	10		u
Zinc	54.0	0.948	52.1	4.74	4	10		u
Titanium	281	0.474	258	2.37	8	10		u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73302834043	Seqnum : 73302834046
Filename : tr211683	Filename : tr211686
IDF : 1.0	IDF : 5.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166535-051	Samplenum: QC220330
Matrix : Soil	Matrix : Soil
Batchnum : 83186	Batchnum : 83186
Inj : 29-JUL-2003 10:47	Inj : 29-JUL-2003 11:00
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	4000	4.74	3800	23.7	5	10		
Antimony	ND	2.84	ND	14.2	--	10		
Arsenic	2.60	0.237	2.68	1.18	3	10		u
Barium	16.9	0.474	15.9	2.37	6	10		
Beryllium	ND	0.0948	ND	0.474	--	10		
Cadmium	1.26	0.237	ND	1.18	--	10		
Calcium	2740	23.7	2670	118	3	10		
Chromium	29.2	0.474	27.7	2.37	5	10		
Cobalt	4.09	0.948	ND	4.74	--	10		
Copper	5.45	0.474	5.45	2.37	0	10		
Iron	*** usable MSS data not found ***							
Lead	32.4	0.142	31.3	0.711	4	10		
Magnesium	1790	23.7	1750	118	2	10		
Manganese	130	0.474	125	2.37	4	10		
Molybdenum	ND	0.948	ND	4.74	--	10		
Nickel	20.9	0.948	20.4	4.74	2	10		
Selenium	0.673	0.237	ND	1.18	--	10		u
Silver	ND	0.237	ND	1.18	--	10		
Thallium	ND	0.237	ND	1.18	--	10		
Vanadium	20.3	0.474	19.1	2.37	6	10		
Zinc	54.0	0.948	53.3	4.74	1	10		
Titanium	281	0.474	263	2.37	6	10		

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285032	Seqnum : 73304285033
Filename : tr211825	Filename : tr211826
IDF : 1.0	IDF : 5.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166535-021	Samplenum: QC220324
Matrix : Soil	Matrix : Soil
Batchnum : 83185	Batchnum : 83185
Inj : 30-JUL-2003 10:14	Inj : 30-JUL-2003 10:21
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3350	4.74	3210	23.7	4	10		u
Antimony	ND	2.84	ND	14.2	--	10		u
Arsenic	2.55	0.237	1.91	1.18	25	10		af
Barium	19.5	0.474	18.6	2.37	4	10		u
Beryllium	ND	0.0948	ND	0.474	--	10		u
Cadmium	0.981	0.237	ND	1.18	--	10		u
Calcium	2440	23.7	2400	118	2	10		u
Chromium	24.2	0.474	23.2	2.37	4	10		u
Cobalt	3.94	0.948	ND	4.74	--	10		u
Copper	7.25	0.474	7.44	2.37	3	10		u
Iron	*** usable MSS data not found ***							
Lead	42.0	0.142	41.2	0.711	2	10		u
Magnesium	1700	23.7	1670	118	2	10		u
Manganese	131	0.474	127	2.37	3	10		u
Molybdenum	ND	0.948	ND	4.74	--	10		u
Nickel	18.9	0.948	18.6	4.74	2	10		u
Selenium	0.328	0.237	ND	1.18	--	10		u
Silver	ND	0.237	ND	1.18	--	10		u
Thallium	ND	0.237	ND	1.18	--	10		u
Vanadium	16.6	0.474	15.9	2.37	5	10		u
Zinc	38.4	0.948	38.2	4.74	1	10		u
Titanium	250	0.474	237	2.37	5	10		u

a=rsd out f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285032	Seqnum : 73304285035
Filename : tr211825	Filename : tr211828
IDF : 1.0	IDF : 5.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166535-021	Samplenum: QC220324
Matrix : Soil	Matrix : Soil
Batchnum : 83185	Batchnum : 83185
Inj : 30-JUL-2003 10:14	Inj : 30-JUL-2003 10:50
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3350	4.74	3480	23.7	4	10		
Antimony	ND	2.84	ND	14.2	--	10		
Arsenic	2.55	0.237	2.68	1.18	5	10		au
Barium	19.5	0.474	20.2	2.37	4	10		
Beryllium	ND	0.0948	ND	0.474	--	10		
Cadmium	0.981	0.237	ND	1.18	--	10		
Calcium	2440	23.7	2580	118	6	10		
Chromium	24.2	0.474	24.9	2.37	3	10		
Cobalt	3.94	0.948	ND	4.74	--	10		
Copper	7.25	0.474	8.10	2.37	12	10		f
Iron	*** usable MSS data not found ***							
Lead	42.0	0.142	46.0	0.711	9	10		
Magnesium	1700	23.7	1800	118	6	10		
Manganese	131	0.474	139	2.37	6	10		
Molybdenum	ND	0.948	ND	4.74	--	10		
Nickel	18.9	0.948	20.6	4.74	9	10		
Selenium	0.328	0.237	ND	1.18	--	10		
Silver	ND	0.237	ND	1.18	--	10		
Thallium	ND	0.237	ND	1.18	--	10		
Vanadium	16.6	0.474	17.2	2.37	3	10		
Zinc	38.4	0.948	40.8	4.74	6	10		
Titanium	250	0.474	258	2.37	3	10		

a=rsd out f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285034	Seqnum : 73304285036
Filename : tr211827	Filename : tr211829
IDF : 10.0	IDF : 50.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166535-021	Samplenum: QC220324
Matrix : Soil	Matrix : Soil
Batchnum : 83185	Batchnum : 83185
Inj : 30-JUL-2003 10:25	Inj : 30-JUL-2003 10:53
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3300	47.4	3360	237	2	10		
Antimony	ND	28.4	ND	142	--	10		
Arsenic	3.33	2.37	ND	11.8	--	10		
Barium	19.2	4.74	ND	23.7	--	10		
Beryllium	ND	0.948	ND	4.74	--	10		
Cadmium	ND	2.37	ND	11.8	--	10		
Calcium	2490	237	2630	1180	6	10		
Chromium	23.9	4.74	23.7	23.7	--	10		
Cobalt	ND	9.48	ND	47.4	--	10		
Copper	8.48	4.74	ND	23.7	--	10		
Iron	6610	47.4	6830	237	3	10		u
Lead	40.0	1.42	47.4	7.11	19	10		f
Magnesium	1730	237	1740	1180	--	10		
Manganese	131	4.74	134	23.7	2	10		
Molybdenum	ND	9.48	ND	47.4	--	10		
Nickel	19.4	9.48	ND	47.4	--	10		
Selenium	ND	2.37	ND	11.8	--	10		
Silver	ND	2.37	ND	11.8	--	10		
Thallium	ND	2.37	ND	11.8	--	10		
Vanadium	16.3	4.74	ND	23.7	--	10		
Zinc	39.6	9.48	ND	47.4	--	10		
Titanium	245	4.74	256	23.7	4	10		

f=recovery failure u=use

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POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73304285050
Filename : tr211843
IDF : 1.0
PDF : 47.39336
Run type : PDS
Sampenum: QC220661
Matrix : Soil
Batchnum : 83185
Inj : 30-JUL-2003 11:48
Units : ug/L

MSS : 166535-021

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73304285032	70590	20000	91050 102	15-150	u
Antimony	73304285032	14.10	2000	2130 106	15-123	u
Arsenic	73304285032	53.70	1000	1110 106	40-126	u
Barium	73304285032	411.0	2000	2490 104	19-138	u
Beryllium	73304285032	ND	50	53.40 107	58-120	u
Cadmium	73304285032	20.70	200	218.0 99	47-120	u
Calcium	73304285032	51400	20000	69990 93	16-150	u
Chromium	73304285032	510.0	2000	2540 102	35-131	u
Cobalt	73304285032	83.20	500	582.0 100	39-120	u
Copper	73304285032	153.0	250	410.0 103	32-150	u
Iron	73304285034	13940	20000	161200 >LR 109	15-150	:>u
Lead	73304285032	887.0	2000	2980 105	23-137	u
Magnesium	73304285032	35890	20000	56850 105	20-150	u
Manganese	73304285032	2760	500	3270 102	15-150	:u
Molybdenum	73304285032	3.800	400	435.0 108	28-120	u
Nickel	73304285032	398.0	500	923.0 105	32-136	u
Selenium	73304285032	6.920	1000	1010 100	38-120	u
Silver	73304285032	ND	200	201.0 101	55-120	u
Thallium	73304285032	ND	1000	1000 100	50-120	u
Vanadium	73304285032	351.0	500	862.0 102	25-130	u
Zinc	73304285032	810.0	500	1300 98	20-147	u
Titanium	73304285032	5270	1000	6390 112	15-150	:u

: =recovery not meaningful >=>LR u=use

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Method: 6010B Standard: blank

Run Time: 07/29/03 06:57:40

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	.001	-.094	.001	.000
SDev	.000	.000	.000	.000	.001	.000	.000
%RSD	6.72	43.5	83.6	12.9	.915	29.4	55.3
#1	-.001	.000	-.001	.001	-.094	.001	.000
#2	-.001	.001	-.000	.001	-.093	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.000	-.000	.000	-.000	-.001
SDev	.000	.000	.001	.000	.000	.000	.000
%RSD	17.0	17.4	153.	236.	38.6	538.	5.30
#1	-.000	-.002	.001	.000	.000	-.000	-.002
#2	-.000	-.002	-.000	-.000	.000	.000	-.001
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.002	-.000	.000	.004	.0254	-.0057
SDev	.000	.000	.000	.000	.000	.0000	.0001
%RSD	9.42	1.33	141.	28.3	1.17	.1267	1.354
#1	.001	.002	-.000	.000	.004	.0255	-.0057
#2	.001	.002	.000	.000	.004	.0254	-.0056
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.050			
SDev	.0003	.0001	.000	.001			
%RSD	42.42	184.9	101.	1.32			
#1	-.0008	-.0000	.000	.050			
#2	-.0004	.0001	.000	.051			

Method: 6010B Standard: cst hi
Run Time: 07/29/03 07:04:17

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.171	.105	.037	5.44	.636	.209	.050
SDev	.004	.001	.001	.00	.004	.001	.000
%RSD	2.33	1.38	1.38	.059	.704	.627	.478
#1	.168	.104	.036	5.43	.633	.208	.050
#2	.174	.106	.037	5.44	.639	.210	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.136	.132	.147	.149	.264	.344	.039
SDev	.001	.000	.001	.001	.001	.001	.001
%RSD	.551	.102	.433	.801	.458	.281	1.73
#1	.136	.132	.147	.148	.263	.344	.039
#2	.137	.131	.147	.150	.265	.345	.040
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.048	.079	.026	.206	.030	.0538	.0652
SDev	.001	.000	.000	.000	.000	.0001	.0005
%RSD	1.07	.120	.985	.164	.534	.1463	.7477
#1	.048	.079	.025	.206	.030	.0537	.0649
#2	.048	.079	.026	.206	.030	.0538	.0656
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0257	.0382	.223	1.96			
SDev	.0004	.0002	.001	.01			
%RSD	1.413	.4885	.561	.317			
#1	.0255	.0381	.222	1.96			
#2	.0260	.0384	.223	1.97			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5784.34	4.85124	07/29/03 07:04:17
Sb206A	206.832	Multiple	Standards	9411.56	-3.66487	07/29/03 07:04:17
As1890	189.042	Multiple	Standards	13462.2	5.91381	07/29/03 07:04:17
Ba4934	493.409	Multiple	Standards	184.020	-.212213	07/29/03 07:04:17
Be3130	313.042	Multiple	Standards	132.373	12.4018	07/29/03 07:04:17
Cd2265	226.502	Multiple	Standards	479.405	-.471467	07/29/03 07:04:17
Cr2677	267.716	Multiple	Standards	3999.74	-.459267	07/29/03 07:04:17
Co2286	228.616	Multiple	Standards	3663.85	.914541	07/29/03 07:04:17
Cu3247	324.754	Multiple	Standards	1496.77	3.05733	07/29/03 07:04:17
Pb2203	220.351	Multiple	Standards	3413.06	-1.70371	07/29/03 07:04:17
Pb220A	220.352	Multiple	Standards	3329.38	.099739	07/29/03 07:04:17
Mo2020	202.030	Multiple	Standards	3789.72	-1.24868	07/29/03 07:04:17
Ni2316	231.604	Multiple	Standards	1449.39	.072333	07/29/03 07:04:17
Se1960	196.021	Multiple	Standards	12346.2	18.0589	07/29/03 07:04:17
Se196A	196.022	Multiple	Standards	10658.0	-12.7696	07/29/03 07:04:17
Ag3280	328.068	Multiple	Standards	1308.50	-2.80888	07/29/03 07:04:17
Tl1908	190.864	Multiple	Standards	19447.2	4.46548	07/29/03 07:04:17
V_2924	292.402	Multiple	Standards	2426.43	-.484520	07/29/03 07:04:17
Zn2138	213.856	Multiple	Standards	4015.54	-17.1396	07/29/03 07:04:17
Al3082	308.215	Multiple	Standards	35756.8	-909.837	07/29/03 07:04:17
Ca3179	317.933	Multiple	Standards	28206.9	160.387	07/29/03 07:04:17
Fe2714	271.441	Multiple	Standards	39578.2	23.7092	07/29/03 07:04:17
Mg2790	279.079	Multiple	Standards	52386.9	-3.40020	07/29/03 07:04:17
Mn2576	257.610	Multiple	Standards	449.899	-.110060	07/29/03 07:04:17
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Ti3349	334.941	Multiple	Standards	522.418	-26.3226	07/29/03 07:04:17

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834001

Run Name :
Filename : tr211641

Injected : 29-JUL-2003 07:14
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	960.9000	ug/L	-4	5	
Antimony	1000.000	996.0000	ug/L	0	5	
Arsenic	500.0000	493.0000	ug/L	-1	5	
Barium	1000.000	972.0000	ug/L	-3	5	
Beryllium	100.0000	98.40000	ug/L	-2	5	
Cadmium	100.0000	98.00000	ug/L	-2	5	
Calcium	2000.000	1984.000	ug/L	-1	5	
Chromium	200.0000	195.0000	ug/L	-3	5	
Cobalt	500.0000	491.0000	ug/L	-2	5	
Copper	200.0000	196.0000	ug/L	-2	5	
Iron	1000.000	971.6000	ug/L	-3	5	
Lead	500.0000	491.0000	ug/L	-2	5	
Magnesium	2000.000	1957.000	ug/L	-2	5	
Manganese	100.0000	98.20000	ug/L	-2	5	
Molybdenum	1000.000	983.0000	ug/L	-2	5	
Nickel	500.0000	491.0000	ug/L	-2	5	
Selenium	500.0000	491.0000	ug/L	-2	5	
Silver	100.0000	99.10000	ug/L	-1	5	
Thallium	500.0000	490.0000	ug/L	-2	5	
Titanium	1000.000	978.0000	ug/L	-2	5	
Vanadium	500.0000	490.0000	ug/L	-2	5	
Zinc	100.0000	97.50000	ug/L	-3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834002

Run Name :
Filename : tr211642

Injected : 29-JUL-2003 07:22
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	460.1000	ug/L	-8	10	
Antimony	500.0000	464.0000	ug/L	-7	10	
Arsenic	250.0000	252.0000	ug/L	1	10	
Barium	500.0000	479.0000	ug/L	-4	10	
Beryllium	50.00000	50.50000	ug/L	1	10	
Cadmium	50.00000	48.40000	ug/L	-3	10	
Calcium	1000.000	1011.000	ug/L	1	10	
Chromium	100.0000	99.50000	ug/L	-1	10	
Cobalt	250.0000	246.0000	ug/L	-2	10	
Copper	100.0000	100.0000	ug/L	0	10	
Iron	500.0000	486.5000	ug/L	-3	10	
Lead	250.0000	235.0000	ug/L	-6	10	
Magnesium	1000.000	1001.000	ug/L	0	10	
Manganese	50.00000	48.90000	ug/L	-2	10	
Molybdenum	500.0000	484.0000	ug/L	-3	10	
Nickel	250.0000	250.0000	ug/L	0	10	
Selenium	250.0000	237.0000	ug/L	-5	10	
Silver	50.00000	48.80000	ug/L	-2	10	
Thallium	250.0000	236.0000	ug/L	-6	10	
Titanium	500.0000	500.0000	ug/L	0	10	
Vanadium	250.0000	245.0000	ug/L	-2	10	
Zinc	50.00000	49.20000	ug/L	-2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834004

Run Name :
Filename : tr211644

Injected : 29-JUL-2003 07:31
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	105.4000	ug/L	5	50	
Antimony	60.00000	63.80000	ug/L	6	50	
Arsenic	5.000000	6.090000	ug/L	22	50	
Barium	10.00000	9.670000	ug/L	-3	50	
Beryllium	2.000000	1.390000	ug/L	-31	50	
Cadmium	5.000000	4.900000	ug/L	-2	50	
Chromium	10.00000	9.400000	ug/L	-6	50	
Cobalt	20.00000	19.30000	ug/L	-4	50	
Copper	10.00000	10.40000	ug/L	4	50	
Iron	100.0000	99.74000	ug/L	0	50	
Lead	3.000000	2.220000	ug/L	-26	50	
Manganese	10.00000	9.760000	ug/L	-2	50	
Molybdenum	20.00000	20.10000	ug/L	1	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	4.410000	ug/L	-12	50	
Silver	5.000000	5.440000	ug/L	9	50	
Thallium	5.000000	5.640000	ug/L	13	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	19.60000	ug/L	-2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834014

Run Name :
Filename : tr211654

Injected : 29-JUL-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	464.5000	ug/L	-7	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	486.0000	ug/L	-3	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	48.20000	ug/L	-4	10	
Calcium		1000.000	1007.000	ug/L	1	10	
Chromium		100.0000	98.90000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	507.0000	ug/L	1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1002.000	ug/L	0	10	
Manganese		50.00000	48.70000	ug/L	-3	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	236.0000	ug/L	-6	10	
Silver		50.00000	50.60000	ug/L	1	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.40000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834026

Run Name :
Filename : tr211666

Injected : 29-JUL-2003 09:28
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	687.3000	ug/L	-8	10	
Antimony		750.0000	746.0000	ug/L	-1	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	715.0000	ug/L	-5	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	70.40000	ug/L	-6	10	
Calcium		1500.000	1513.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	741.2000	ug/L	-1	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	72.00000	ug/L	-4	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	366.0000	ug/L	-2	10	
Selenium		375.0000	361.0000	ug/L	-4	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	736.0000	ug/L	-2	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834038

Run Name :
Filename : tr211678

Injected : 29-JUL-2003 10:23
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	777.5000	ug/L	4	10	
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	725.0000	ug/L	-3	10	
Beryllium		75.00000	75.70000	ug/L	1	10	
Cadmium		75.00000	71.30000	ug/L	-5	10	
Calcium		1500.000	1545.000	ug/L	3	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	778.9000	ug/L	4	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1552.000	ug/L	3	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.40000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834050

Run Name :
Filename : tr211691

Injected : 29-JUL-2003 11:32
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	465.0000	ug/L	-7	10	
Antimony		500.0000	484.0000	ug/L	-3	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	481.0000	ug/L	-4	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	46.80000	ug/L	-6	10	
Calcium		1000.000	974.5000	ug/L	-3	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	99.40000	ug/L	-1	10	
Iron		500.0000	499.3000	ug/L	0	10	
Lead		250.0000	238.0000	ug/L	-5	10	
Magnesium		1000.000	995.6000	ug/L	0	10	
Manganese		50.00000	47.10000	ug/L	-6	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	49.60000	ug/L	-1	10	
Thallium		250.0000	235.0000	ug/L	-6	10	
Titanium		500.0000	497.0000	ug/L	-1	10	
Vanadium		250.0000	238.0000	ug/L	-5	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834062

Run Name :
Filename : tr211703

Injected : 29-JUL-2003 12:25
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	275.6000	ug/L	10		10	
Antimony		250.0000	263.0000	ug/L	5		10	
Arsenic		125.0000	130.0000	ug/L	4		10	
Barium		250.0000	251.0000	ug/L	0		10	
Beryllium		25.00000	26.40000	ug/L	6		10	
Cadmium		25.00000	24.70000	ug/L	-1		10	
Calcium		500.0000	499.8000	ug/L	0		10	
Chromium		50.00000	51.50000	ug/L	3		10	
Cobalt		125.0000	126.0000	ug/L	1		10	
Copper		50.00000	51.10000	ug/L	2		10	
Iron		250.0000	272.3000	ug/L	9		10	
Lead		125.0000	126.0000	ug/L	1		10	
Magnesium		500.0000	518.8000	ug/L	4		10	
Manganese		25.00000	24.70000	ug/L	-1		10	
Molybdenum		250.0000	252.0000	ug/L	1		10	
Nickel		125.0000	129.0000	ug/L	3		10	
Selenium		125.0000	128.0000	ug/L	2		10	
Silver		25.00000	25.50000	ug/L	2		10	
Thallium		125.0000	120.0000	ug/L	-4		10	
Titanium		250.0000	259.0000	ug/L	4		10	
Vanadium		125.0000	124.0000	ug/L	-1		10	
Zinc		25.00000	26.70000	ug/L	7		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834074

Run Name :
Filename : tr211716

Injected : 29-JUL-2003 13:33
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	521.6000	ug/L	4	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	262.0000	ug/L	5	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	50.40000	ug/L	1	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	999.4000	ug/L	0	10	
Chromium		100.0000	99.50000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	488.9000	ug/L	-2	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	998.0000	ug/L	0	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	48.90000	ug/L	-2	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	501.0000	ug/L	0	10	
Vanadium		250.0000	237.0000	ug/L	-5	10	
Zinc		50.00000	51.40000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834086

Run Name :
Filename : tr211729

Injected : 29-JUL-2003 14:37
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	812.2000	ug/L	8	10	
Antimony		750.0000	793.0000	ug/L	6	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	747.0000	ug/L	0	10	
Beryllium		75.00000	75.50000	ug/L	1	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1425.000	ug/L	-5	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	790.4000	ug/L	5	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1504.000	ug/L	0	10	
Manganese		75.00000	74.20000	ug/L	-1	10	
Molybdenum		750.0000	764.0000	ug/L	2	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	72.00000	ug/L	-4	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	741.0000	ug/L	-1	10	
Vanadium		375.0000	349.0000	ug/L	-7	10	
Zinc		75.00000	77.00000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73302834098

Run Name :
Filename : tr211741

Injected : 29-JUL-2003 15:28
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	505.4000	ug/L	1	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	50.60000	ug/L	1	10	
Calcium		1000.000	910.4000	ug/L	-9	10	
Chromium		100.0000	96.90000	ug/L	-3	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	97.40000	ug/L	-3	10	
Iron		500.0000	527.5000	ug/L	6	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	993.7000	ug/L	-1	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	47.20000	ug/L	-6	10	
Thallium		250.0000	254.0000	ug/L	2	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	229.0000	ug/L	-8	10	
Zinc		50.00000	53.80000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834110

Run Name :
Filename : tr211753

Injected : 29-JUL-2003 16:17
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	774.9000	ug/L	3	10	
Antimony		750.0000	788.0000	ug/L	5	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	77.00000	ug/L	3	10	
Cadmium		75.00000	73.30000	ug/L	-2	10	
Calcium		1500.000	1494.000	ug/L	0	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	777.2000	ug/L	4	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1521.000	ug/L	1	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	747.0000	ug/L	0	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	74.40000	ug/L	-1	10	
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834122

Run Name :
Filename : tr211765

Injected : 29-JUL-2003 17:18
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	517.8000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	50.70000	ug/L	1	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	955.3000	ug/L	-4	10	
Chromium		100.0000	98.60000	ug/L	-1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	98.40000	ug/L	-2	10	
Iron		500.0000	505.3000	ug/L	1	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1041.000	ug/L	4	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.70000	ug/L	-1	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	51.20000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834003
Filename: tr211643

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 29-JUL-2003 07:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.1500]		60.00000	ug/L	<	RL
Arsenic	[1.6700]		5.000000	ug/L	<	RL
Barium	[0.0850]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[16.690]		500.0000	ug/L	<	RL
Chromium	[0.0540]		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.2770]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.6980]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[5.8500]		20.00000	ug/L	<	RL
Nickel	[0.0810]		20.00000	ug/L	<	RL
Selenium	[1.9500]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.3900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834015
Filename: tr211655

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 08:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[1.1700]		5.000000	ug/L	<	RL
Barium	[0.0110]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[52.370]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.4940]		10.00000	ug/L	<	RL
Copper	[1.8500]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.1800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[1.6000]		5.000000	ug/L	<	RL
Titanium	[1.2300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834027
Filename: tr211667

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 09:33

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[1.1000]		60.00000	ug/L	<	RL
Arsenic	[2.0800]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[67.300]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[1.9500]		10.00000	ug/L	<	RL
Iron	[10.260]		100.0000	ug/L	<	RL
Lead	[0.0180]		3.000000	ug/L	<	RL
Magnesium	[8.7480]		500.0000	ug/L	<	RL
Manganese	[0.1340]		10.00000	ug/L	<	RL
Molybdenum	[3.3900]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[3.9200]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[3.0300]		5.000000	ug/L	<	RL
Titanium	[1.9700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834039
Filename: tr211679

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 10:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[5.9600]		60.00000	ug/L	<	RL
Arsenic	[3.3000]		5.000000	ug/L	<	RL
Barium	[0.1710]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[67.790]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.8310]		10.00000	ug/L	<	RL
Copper	[2.1700]		10.00000	ug/L	<	RL
Iron	[9.9950]		100.0000	ug/L	<	RL
Lead	[1.1100]		3.000000	ug/L	<	RL
Magnesium	[18.700]		500.0000	ug/L	<	RL
Manganese	[0.0360]		10.00000	ug/L	<	RL
Molybdenum	[8.3300]		20.00000	ug/L	<	RL
Nickel	[0.4080]		20.00000	ug/L	<	RL
Selenium	[1.5200]		5.000000	ug/L	<	RL
Silver	[0.7910]		5.000000	ug/L	<	RL
Thallium	[4.3300]		5.000000	ug/L	<	RL
Titanium	[2.2300]		10.00000	ug/L	<	RL
Vanadium	[0.0090]		10.00000	ug/L	<	RL
Zinc	[0.1180]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834051
Filename: tr211692

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.0175]	100.0000	ug/L	<RL		
Antimony	[24.600]	60.00000	ug/L	<RL		
Arsenic	[1.6900]	5.000000	ug/L	<RL		
Barium	[0.1600]	10.00000	ug/L	<RL		
Beryllium	[0.0360]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[29.750]	500.0000	ug/L	<RL		
Chromium	[0.5780]	10.00000	ug/L	<RL		
Cobalt	[0.9320]	10.00000	ug/L	<RL		
Copper	[1.6200]	10.00000	ug/L	<RL		
Iron	[8.2620]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[1.4240]	500.0000	ug/L	<RL		
Manganese	[0.0040]	10.00000	ug/L	<RL		
Molybdenum	[2.2600]	20.00000	ug/L	<RL		
Nickel	[0.6040]	20.00000	ug/L	<RL		
Selenium	[3.3900]	5.000000	ug/L	<RL		
Silver	[0.3250]	5.000000	ug/L	<RL		
Thallium	[0.1300]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.0550]	10.00000	ug/L	<RL		
Zinc	[0.1510]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834063
Filename: tr211704

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 12:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[33.170]	100.0000	ug/L	<RL		
Antimony	[0.8910]	60.00000	ug/L	<RL		
Arsenic	[3.5700]	5.000000	ug/L	<RL		
Barium	[0.0390]	10.00000	ug/L	<RL		
Beryllium	[0.6740]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[11.100]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4860]	10.00000	ug/L	<RL		
Copper	[0.4630]	10.00000	ug/L	<RL		
Iron	[2.6330]	100.0000	ug/L	<RL		
Lead	[0.8090]	3.000000	ug/L	<RL		
Magnesium	[0.2709]	500.0000	ug/L	<RL		
Manganese	[0.1280]	10.00000	ug/L	<RL		
Molybdenum	[0.9820]	20.00000	ug/L	<RL		
Nickel	[0.2390]	20.00000	ug/L	<RL		
Selenium	[1.9100]	5.000000	ug/L	<RL		
Silver	[0.1220]	5.000000	ug/L	<RL		
Thallium	[4.8600]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4290]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834075
Filename: tr211717

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 13:43

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[66.600]	100.0000	ug/L	<RL	
Antimony	[46.200]	60.00000	ug/L	<RL	
Arsenic	[3.5300]	5.000000	ug/L	<RL	
Barium	[0.1060]	10.00000	ug/L	<RL	
Beryllium	[0.4720]	2.000000	ug/L	<RL	
Cadmium	[0.0420]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0140]	10.00000	ug/L	<RL	
Cobalt	[0.7770]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[1.3550]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.0500]	500.0000	ug/L	<RL	
Manganese	[0.0540]	10.00000	ug/L	<RL	
Molybdenum	[3.7900]	20.00000	ug/L	<RL	
Nickel	[0.6020]	20.00000	ug/L	<RL	
Selenium	[3.1800]	5.000000	ug/L	<RL	
Silver	[0.2640]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.2370]	10.00000	ug/L	<RL	
Vanadium	[0.3990]	10.00000	ug/L	<RL	
Zinc	[0.8020]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834087
Filename: tr211730

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 14:42

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[5.0500]	60.00000	ug/L	<RL	
Arsenic	[3.1300]	5.000000	ug/L	<RL	
Barium	[0.2330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.5950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.6480]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[23.210]	100.0000	ug/L	<RL	
Lead	[2.8900]	3.000000	ug/L	<RL	
Magnesium	[9.5680]	500.0000	ug/L	<RL	
Manganese	[0.5710]	10.00000	ug/L	<RL	
Molybdenum	[8.0600]	20.00000	ug/L	<RL	
Nickel	[0.3270]	20.00000	ug/L	<RL	
Selenium	[3.0500]	5.000000	ug/L	<RL	
Silver	[0.1750]	5.000000	ug/L	<RL	
Thallium	[1.3200]	5.000000	ug/L	<RL	
Titanium	[1.9200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834099
Filename: tr211742

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 15:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[16.000]	100.0000	ug/L	<RL		
Antimony	[21.600]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1760]	10.00000	ug/L	<RL		
Beryllium	[1.2000]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.5380]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[18.690]	100.0000	ug/L	<RL		
Lead	[2.3300]	3.000000	ug/L	<RL		
Magnesium	[6.0890]	500.0000	ug/L	<RL		
Manganese	[0.3780]	10.00000	ug/L	<RL		
Molybdenum	[7.0200]	20.00000	ug/L	<RL		
Nickel	[0.3340]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.6200]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.5700]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834111
Filename: tr211754

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 16:31

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[84.190]	100.0000	ug/L	<RL	
Antimony	[51.900]	60.00000	ug/L	<RL	
Arsenic	[1.7800]	5.000000	ug/L	<RL	
Barium	[0.1280]	10.00000	ug/L	<RL	
Beryllium	[1.1100]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.1900]	3.000000	ug/L	<RL	
Magnesium	[4.2850]	500.0000	ug/L	<RL	
Manganese	[0.0790]	10.00000	ug/L	<RL	
Molybdenum	[3.9900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.4000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.7970]	10.00000	ug/L	<RL	
Vanadium	[0.0340]	10.00000	ug/L	<RL	
Zinc	[1.3900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834123
Filename: tr211766

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 17:24

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[1.9140]	100.0000	ug/L	<RL	
Antimony	[21.200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0610]	10.00000	ug/L	<RL	
Beryllium	[0.0950]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.3540]	10.00000	ug/L	<RL	
Cobalt	[0.2350]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.6030]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[19.000]	500.0000	ug/L	<RL	
Manganese	[0.1280]	10.00000	ug/L	<RL	
Molybdenum	[2.0600]	20.00000	ug/L	<RL	
Nickel	[0.4380]	20.00000	ug/L	<RL	
Selenium	[0.0300]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.9090]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4400]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834005

Run Name :
Filename : tr211645

Injected : 29-JUL-2003 07:39
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	500800.0	ug/L	0			
Antimony	500.0000	444.0000	ug/L	-11	20		
Arsenic	500.0000	538.0000	ug/L	8	20		
Barium	500.0000	485.0000	ug/L	-3	20		
Beryllium	500.0000	504.0000	ug/L	1	20		
Cadmium	1000.000	947.0000	ug/L	-5	20		
Calcium	500000.0	463700.0	ug/L	-7			
Chromium	500.0000	468.0000	ug/L	-6	20		
Cobalt	500.0000	473.0000	ug/L	-5	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	181900.0	ug/L	-9			
Lead	1000.000	833.0000	ug/L	-17	20		
Magnesium	500000.0	514000.0	ug/L	3			
Manganese	500.0000	482.0000	ug/L	-4	20		
Molybdenum	500.0000	452.0000	ug/L	-10	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	481.0000	ug/L	-4	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	466.0000	ug/L	-7	20		
Titanium	20000.00	2020.000	ug/L	-90			
Vanadium	500.0000	485.0000	ug/L	-3	20		
Zinc	1000.000	995.0000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834037

Run Name :
Filename : tr211677

Injected : 29-JUL-2003 10:16
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	539500.0	ug/L	8			
Antimony	500.0000	449.0000	ug/L	-10	20		
Arsenic	500.0000	538.0000	ug/L	8	20		
Barium	500.0000	497.0000	ug/L	-1	20		
Beryllium	500.0000	508.0000	ug/L	2	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	444100.0	ug/L	-11			
Chromium	500.0000	479.0000	ug/L	-4	20		
Cobalt	500.0000	476.0000	ug/L	-5	20		
Copper	500.0000	523.0000	ug/L	5	20		
Iron	200000.0	186400.0	ug/L	-7			
Lead	1000.000	850.0000	ug/L	-15	20		
Magnesium	500000.0	521500.0	ug/L	4			
Manganese	500.0000	478.0000	ug/L	-4	20		
Molybdenum	500.0000	465.0000	ug/L	-7	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	502.0000	ug/L	0	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	461.0000	ug/L	-8	20		
Titanium	20000.00	2030.000	ug/L	-90			
Vanadium	500.0000	488.0000	ug/L	-2	20		
Zinc	1000.000	1010.000	ug/L	1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834121

Run Name :
Filename : tr211764

Injected : 29-JUL-2003 17:10
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	479200.0	ug/L	-4			
Antimony	500.0000	486.0000	ug/L	-3	20		
Arsenic	500.0000	569.0000	ug/L	14	20		
Barium	500.0000	519.0000	ug/L	4	20		
Beryllium	500.0000	500.0000	ug/L	0	20		
Cadmium	1000.000	1010.000	ug/L	1	20		
Calcium	500000.0	457600.0	ug/L	-8			
Chromium	500.0000	487.0000	ug/L	-3	20		
Cobalt	500.0000	488.0000	ug/L	-2	20		
Copper	500.0000	538.0000	ug/L	8	20		
Iron	200000.0	189500.0	ug/L	-5			
Lead	1000.000	907.0000	ug/L	-9	20		
Magnesium	500000.0	526700.0	ug/L	5			
Manganese	500.0000	489.0000	ug/L	-2	20		
Molybdenum	500.0000	487.0000	ug/L	-3	20		
Nickel	1000.000	1070.000	ug/L	7	20		
Selenium	500.0000	529.0000	ug/L	6	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	503.0000	ug/L	1	20		
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	502.0000	ug/L	0	20		
Zinc	1000.000	1040.000	ug/L	4	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73302834 Instrument: MET07 TJA Trace ICP

Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211641	CS				29-JUL-2003 07:14	1.0	1.0				1	
002	tr211642	ICV				29-JUL-2003 07:22	1.0	1.0				2	
003	tr211643	ICB				29-JUL-2003 07:26	1.0	1.0				3	
004	tr211644	CRI				29-JUL-2003 07:31	1.0	1.0				4	4:MG=514000
005	tr211645	ICSAB				29-JUL-2003 07:39	1.0	1.0					
006	tr211646	SAMPLE	166556-001	83188	Miscel	29-JUL-2003 07:45	1.0	48.54369					
007	tr211647	SAMPLE	166556-002	83188	Miscel	29-JUL-2003 07:49	1.0	46.51163					
008	tr211648	SAMPLE	166556-003	83188	Miscel	29-JUL-2003 07:53	1.0	45.24887					
009	tr211649	SAMPLE	166550-002	83188	Soil	29-JUL-2003 07:57	1.0	42.91845					1:FE=125500
010	tr211650	SAMPLE	166561-014	83188	Soil	29-JUL-2003 08:01	1.0	44.05286	1				1:FE=164600
011	tr211651	SAMPLE	166561-029	83188	Soil	29-JUL-2003 08:05	1.0	42.55319	2				1:FE=198400
012	tr211652	SAMPLE	166561-030	83188	Soil	29-JUL-2003 08:09	1.0	48.54369	1				1:FE=170300
013	tr211653	SAMPLE	166561-029	83188	Soil	29-JUL-2003 08:13	1.0	42.55319	3				1:FE=197100
014	tr211654	CCV				29-JUL-2003 08:26	1.0	1.0				5	
015	tr211655	CCB				29-JUL-2003 08:38	1.0	1.0					
016	tr211656	SAMPLE	166561-042	83188	Soil	29-JUL-2003 08:42	1.0	45.24887	2				2:FE=183400
017	tr211657	SAMPLE	166551-003	83188	Soil	29-JUL-2003 08:46	1.0	40.32258					4:FE=587000
018	tr211658	SAMPLE	166551-006	83188	Soil	29-JUL-2003 08:50	1.0	43.66812					4:FE=566500
019	tr211659	SAMPLE	166551-009	83188	Soil	29-JUL-2003 08:54	1.0	44.24779					5:FE=531300
020	tr211660	SAMPLE	166561-014	83188	Soil	29-JUL-2003 09:00	10.0	44.05286	1				
021	tr211661	SAMPLE	166561-029	83188	Soil	29-JUL-2003 09:03	10.0	42.55319					
022	tr211662	SAMPLE	166561-030	83188	Soil	29-JUL-2003 09:07	10.0	48.54369	1				
023	tr211663	SAMPLE	166561-042	83188	Soil	29-JUL-2003 09:11	10.0	45.24887	3				
024	tr211664	SAMPLE	166478-002	83128	Water	29-JUL-2003 09:16	1.0	1.0	1				1:CA=263000
025	tr211665	SAMPLE	166478-003	83128	Water	29-JUL-2003 09:19	1.0	1.0					
026	tr211666	CCV				29-JUL-2003 09:28	1.0	1.0				6	
027	tr211667	CCB				29-JUL-2003 09:33	1.0	1.0					
028	tr211668	SAMPLE	166478-002	83128	Water	29-JUL-2003 09:37	1.0	1.0					1:CA=263200
029	tr211669	SAMPLE	166478-003	83128	Water	29-JUL-2003 09:41	1.0	1.0					
030	tr211670	SAMPLE	166478-004	83128	Water	29-JUL-2003 09:45	1.0	1.0					
031	tr211671	SAMPLE	166478-005	83128	Water	29-JUL-2003 09:49	1.0	1.0					2:CA=951900
032	tr211672	SAMPLE	166478-006	83128	Water	29-JUL-2003 09:53	1.0	1.0	1				

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: Merly Date: 7/29/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73302834

Instrument: MET07

TJA Trace ICP

Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used
065	tr211706	SAMPLE	166535-054	83186	Soil	29-JUL-2003 12:41	1.0	44.44444				1:FE=158400	>LR
066	tr211707	SAMPLE	166535-055	83186	Soil	29-JUL-2003 12:44	1.0	49.01961				1:FE=139700	
067	tr211708	SAMPLE	166535-056	83186	Soil	29-JUL-2003 12:48	1.0	46.29630				1:FE=122200	
068	tr211709	SAMPLE	166535-057	83186	Soil	29-JUL-2003 12:51	1.0	49.50495				1:FE=124800	
069	tr211710	SAMPLE	166535-058	83186	Soil	29-JUL-2003 12:55	1.0	46.29630				1:FE=132400	
070	tr211711	SAMPLE	166535-059	83186	Soil	29-JUL-2003 12:58	1.0	45.24887				1:FE=152100	
071	tr211712	SAMPLE	166535-060	83186	Soil	29-JUL-2003 13:03	1.0	46.29630	1			1:FE=145400	
072	tr211713	SAMPLE	166535-060	83186	Soil	29-JUL-2003 13:08	10.0	46.29630	1				
073	tr211714	BLANK	QC220248	83172	Water	29-JUL-2003 13:15	1.0	1.0					
074	tr211716	CCV				29-JUL-2003 13:33	1.0	1.0					
075	tr211717	CCB				29-JUL-2003 13:43	1.0	1.0					
076	tr211718	BS	QC220249	83172	Water	29-JUL-2003 13:49	1.0	1.0					
077	tr211719	BSD	QC220250	83172	Water	29-JUL-2003 13:53	1.0	1.0					
078	tr211720	BLANK	QC220555	83243	Soil	29-JUL-2003 14:00	1.0	50.0					
079	tr211721	BS	QC220556	83243	Soil	29-JUL-2003 14:03	1.0	50.0					
080	tr211722	BSD	QC220557	83243	Soil	29-JUL-2003 14:07	1.0	50.0					
081	tr211723	MSS	166578-001	83243	Soil	29-JUL-2003 14:10	1.0	42.37288					
082	tr211724	SER	QC220560	83243	Soil	29-JUL-2003 14:14	5.0	42.37288	1				
083	tr211725	MS	QC220558	83243	Soil	29-JUL-2003 14:18	1.0	45.66210				1:AL=117500	
084	tr211726	MSD	QC220559	83243	Soil	29-JUL-2003 14:21	1.0	45.87156				1:AL=113000	
085	tr211727	SAMPLE	166571-001	83243	Soil	29-JUL-2003 14:25	1.0	48.30918				3:FE=478800	
086	tr211729	CCV				29-JUL-2003 14:37	1.0	1.0					
087	tr211730	CCB				29-JUL-2003 14:42	1.0	1.0					
088	tr211731	SAMPLE	166571-002	83243	Soil	29-JUL-2003 14:48	1.0	46.08295				3:FE=490200	
089	tr211732	SAMPLE	166571-003	83243	Soil	29-JUL-2003 14:51	1.0	47.61905				3:FE=415000	
090	tr211733	SAMPLE	166571-004	83243	Soil	29-JUL-2003 14:55	1.0	45.45455				2:FE=398600	
091	tr211734	SAMPLE	166571-005	83243	Soil	29-JUL-2003 14:58	1.0	49.01961				3:FE=326500	
092	tr211735	SAMPLE	166571-006	83243	Soil	29-JUL-2003 15:02	1.0	46.51163				3:FE=515400	
093	tr211736	SAMPLE	166571-007	83243	Soil	29-JUL-2003 15:05	1.0	48.30918				4:FE=502300	
094	tr211737	SAMPLE	166571-008	83243	Soil	29-JUL-2003 15:09	1.0	44.44444				3:FE=524300	
095	tr211738	SAMPLE	166571-009	83243	Soil	29-JUL-2003 15:12	1.0	46.72897				3:FE=454000	
096	tr211739	SAMPLE	166571-010	83243	Soil	29-JUL-2003 15:16	1.0	42.37288				2:FE=463500	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS74 8=03SSS75 9=03WS1152

Analyst: McV Date: 7/29/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73302834

Instrument: MET07

TJA Trace ICP

Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr211673	PDS	QC220466	83188	Soil	29-JUL-2003 09:58	1.0	42.19409				7	8	2:FE=183700 2:CA=958200
034	tr211674	SAMPLE	166478-006	83128	Water	29-JUL-2003 10:01	1.0	1.0	1					
035	tr211675	MSS	166550-001	83188	Soil	29-JUL-2003 10:05	10.0	42.19409						
036	tr211676	SER	QC220341	83188	Soil	29-JUL-2003 10:09	50.0	42.19409						4:AL=539500
037	tr211677	ICSAB				29-JUL-2003 10:16	1.0	1.0				4		
038	tr211678	CCV				29-JUL-2003 10:23	1.0	1.0				6		
039	tr211679	CCB				29-JUL-2003 10:28	1.0	1.0						
040	tr211680	BLANK	QC220325	83186	Soil	29-JUL-2003 10:36	1.0	50.0						
041	tr211681	BS	QC220326	83186	Soil	29-JUL-2003 10:40	1.0	50.0						1:FE=202500
042	tr211682	BSD	QC220327	83186	Soil	29-JUL-2003 10:44	1.0	50.0						
043	tr211683	MSS	166535-051	83186	Soil	29-JUL-2003 10:52	10.0	47.39336	1					
044	tr211684	MSS	166535-051	83186	Soil	29-JUL-2003 11:00	5.0	47.39336		1				
045	tr211685	SER	QC220330	83186	Soil	29-JUL-2003 11:06	1.0	46.94836						2:FE=395700 2:FE=400500
046	tr211686	SER	QC220328	83186	Soil	29-JUL-2003 11:15	1.0	47.39336						1:FE=165100
047	tr211687	MS	QC220329	83186	Soil	29-JUL-2003 11:32	1.0	1.0				5		
048	tr211689	MSD	166535-042	83186	Soil	29-JUL-2003 11:39	1.0	1.0						
049	tr211691	CCV				29-JUL-2003 11:43	1.0	45.04505	1					1:FE=136700
050	tr211692	CCB				29-JUL-2003 11:48	1.0	45.04505						1:FE=139900
051	tr211693	SAMPLE	166535-043	83186	Soil	29-JUL-2003 11:51	1.0	39.68254						1:FE=133500
052	tr211694	SAMPLE	166535-044	83186	Soil	29-JUL-2003 11:55	1.0	43.85965						2:FE=187500
053	tr211695	SAMPLE	166535-045	83186	Soil	29-JUL-2003 11:58	1.0	47.16981						1:FE=158900
054	tr211696	SAMPLE	166535-046	83186	Soil	29-JUL-2003 12:02	1.0	43.85965						1:FE=161300
055	tr211697	SAMPLE	166535-047	83186	Soil	29-JUL-2003 12:05	1.0	45.66210						2:FE=197900
056	tr211698	SAMPLE	166535-048	83186	Soil	29-JUL-2003 12:09	1.0	46.94836						1:FE=157800
057	tr211699	SAMPLE	166535-049	83186	Soil	29-JUL-2003 12:12	1.0	46.72897						1:FE=175300
058	tr211700	SAMPLE	166535-050	83186	Soil	29-JUL-2003 12:16	1.0	42.91845						1:FE=150200
059	tr211701	SAMPLE	166535-052	83186	Soil	29-JUL-2003 12:25	1.0	1.0				9		
060	tr211702	SAMPLE				29-JUL-2003 12:32	1.0	1.0						
061	tr211703	CCV				29-JUL-2003 12:37	1.0	48.30918						1:FE=142800
062	tr211704	CCB												
063	tr211705	SAMPLE	166535-053	83186	Soil									

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: Wesley Date: 7/29/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73302834 Instrument: MET07 TJA Trace ICP Begun: 29-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
097	tr211740	SAMPLE	166571-011	83243	Soil	29-JUL-2003 15:19	1.0	47.39336				3:FE=510600	
098	tr211741	CCV				29-JUL-2003 15:28	1.0	1.0					5
099	tr211742	CCB				29-JUL-2003 15:32	1.0	1.0					
100	tr211743	SAMPLE	166571-012	83243	Soil	29-JUL-2003 15:41	1.0	41.32231				4:FE=690200	
101	tr211744	SAMPLE	166578-002	83243	Soil	29-JUL-2003 15:45	1.0	46.72897					
102	tr211745	SAMPLE	166578-003	83243	Soil	29-JUL-2003 15:48	1.0	46.94836	1			3:FE=273200	
103	tr211746	SAMPLE	166578-004	83243	Soil	29-JUL-2003 15:52	1.0	49.75124					
104	tr211747	SAMPLE	166578-005	83243	Soil	29-JUL-2003 15:55	1.0	47.84689	1			3:FE=225000	
105	tr211748	SAMPLE	166578-006	83243	Soil	29-JUL-2003 15:59	1.0	48.54369					
106	tr211749	SAMPLE	166578-007	83243	Soil	29-JUL-2003 16:02	1.0	48.07692					
107	tr211750	SAMPLE	166578-008	83243	Soil	29-JUL-2003 16:05	1.0	47.16981					
108	tr211751	SAMPLE	166578-003	83243	Soil	29-JUL-2003 16:09	20.0	46.94836					
109	tr211752	SAMPLE	166578-005	83243	Soil	29-JUL-2003 16:13	20.0	47.84689					
110	tr211753	CCV				29-JUL-2003 16:17	1.0	1.0					6
111	tr211754	CCB				29-JUL-2003 16:31	1.0	1.0					
112	tr211755	MSS	166495-001	83172	Water	29-JUL-2003 16:37	1.0	1.0	4			2:MG=7700	
113	tr211756	MSS	166495-001	83172	Water	29-JUL-2003 16:40	1.0	1.0	3			2:MG=796800	
114	tr211757	SER	QC220253	83172	Water	29-JUL-2003 16:44	5.0	1.0				1:MG=151500	
115	tr211758	MSS	166495-001	83172	Water	29-JUL-2003 16:48	10.0	1.0					
116	tr211759	SER	QC220253	83172	Water	29-JUL-2003 16:52	50.0	1.0					
117	tr211760	MS	QC220251	83172	Water	29-JUL-2003 16:55	1.0	1.0				2:MG=785900	
118	tr211761	MSD	QC220252	83172	Water	29-JUL-2003 16:59	1.0	1.0				2:MG=781800	
119	tr211762	SAMPLE	166503-001	83172	Water	29-JUL-2003 17:03	1.0	1.0					
120	tr211763	SAMPLE	166535-026	83172	Water	29-JUL-2003 17:06	1.0	1.0					
121	tr211764	ICSAB				29-JUL-2003 17:10	1.0	1.0				4:MG=526700	
122	tr211765	CCV				29-JUL-2003 17:18	1.0	1.0					5
123	tr211766	CCB				29-JUL-2003 17:24	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75 9=03WS1152

Analyst: meili Date: 7/29/97
Page 4 of 4

Method: 6010B Standard: blank

Run Time: 07/30/03 07:12:39

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.090	.001	.000
SDev	.000	.001	.000	.000	.001	.000	.000
%RSD	4.13	93.6	362.	37.3	1.18	31.8	9.96
#1	-.001	.001	-.000	.000	-.089	.001	.000
#2	-.001	.000	.000	.001	-.090	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.001	.000	.000	.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	92.6	5.31	51.5	239.	14.2	47.2	6.28
#1	-.000	-.003	.000	-.000	.000	.000	-.002
#2	-.000	-.003	.001	.001	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.005	.0272	-.0066
SDev	.000	.000	.000	.000	.000	.0002	.0000
%RSD	17.3	189.	91.7	73.6	.581	.7192	.2572
#1	.001	.000	-.001	.000	.005	.0271	-.0066
#2	.001	-.000	-.000	.000	.005	.0274	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0000	.000	.058			
SDev	.0000	.0000	.000	.000			
%RSD	4.700	35.44	.094	.052			
#1	-.0007	.0000	.000	.058			
#2	-.0006	.0001	.000	.058			

Method: 6010B Standard: cst hi

Run Time: 07/30/03 07:18:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.094	.037	5.34	.637	.215	.050
SDev	.007	.004	.000	.01	.001	.001	.000
%RSD	4.96	4.29	.422	.196	.175	.220	.058
#1	.145	.091	.037	5.35	.637	.215	.050
#2	.155	.097	.037	5.34	.636	.214	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.138	.128	.151	.150	.262	.350	.039
SDev	.000	.001	.000	.001	.001	.000	.001
%RSD	.168	.474	.125	.321	.480	.011	2.33
#1	.138	.129	.151	.150	.261	.350	.039
#2	.138	.128	.151	.150	.263	.350	.040
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Avge	.048	.078	.026	.205	.031	.0556	.0639
SDev	.001	.000	.001	.000	.000	.0002	.0001
%RSD	2.02	.340	2.59	.132	.058	.4210	.0753
#1	.049	.078	.025	.205	.031	.0557	.0639
#2	.047	.078	.026	.205	.031	.0554	.0639
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0256	.0387	.223	1.95			
SDev	.0001	.0001	.000	.00			
%RSD	.2434	.3114	.102	.026			
#1	.0257	.0388	.223	1.95			
#2	.0256	.0386	.222	1.95			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6592.54	5.05393	07/30/03 07:18:23
Sb206A	206.832	Multiple	Standards	10503.1	-8.85296	07/30/03 07:18:23
As1890	189.042	Multiple	Standards	13430.1	1.32147	07/30/03 07:18:23
Ba4934	493.409	Multiple	Standards	187.197	-.097395	07/30/03 07:18:23
Be3130	313.042	Multiple	Standards	133.019	11.9294	07/30/03 07:18:23
Cd2265	226.502	Multiple	Standards	467.049	-.317073	07/30/03 07:18:23
Cr2677	267.716	Multiple	Standards	3987.61	-.938947	07/30/03 07:18:23
Co2286	228.616	Multiple	Standards	3619.59	.574526	07/30/03 07:18:23
Cu3247	324.754	Multiple	Standards	1526.99	3.98917	07/30/03 07:18:23
Pb2203	220.351	Multiple	Standards	3328.36	-2.00525	07/30/03 07:18:23
Pb220A	220.352	Multiple	Standards	3312.66	-.889815	07/30/03 07:18:23
Mo2020	202.030	Multiple	Standards	3816.88	-1.25409	07/30/03 07:18:23
Ni2316	231.604	Multiple	Standards	1426.89	-.164114	07/30/03 07:18:23
Se1960	196.021	Multiple	Standards	12182.5	19.8127	07/30/03 07:18:23
Se196A	196.022	Multiple	Standards	10647.7	-12.3594	07/30/03 07:18:23
Ag3280	328.068	Multiple	Standards	1277.74	-.041942	07/30/03 07:18:23
Tl1908	190.864	Multiple	Standards	19169.6	7.76424	07/30/03 07:18:23
V_2924	292.402	Multiple	Standards	2437.37	-.333773	07/30/03 07:18:23
Zn2138	213.856	Multiple	Standards	3949.56	-18.8368	07/30/03 07:18:23
Al3082	308.215	Multiple	Standards	35764.8	-974.098	07/30/03 07:18:23
Ca3179	317.933	Multiple	Standards	28356.5	187.723	07/30/03 07:18:23
Fe2714	271.441	Multiple	Standards	39705.4	25.6544	07/30/03 07:18:23
Mg2790	279.079	Multiple	Standards	51700.0	-2.26513	07/30/03 07:18:23
Mn2576	257.610	Multiple	Standards	449.880	-.098536	07/30/03 07:18:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Ti3349	334.941	Multiple	Standards	527.417	-30.8119	07/30/03 07:18:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285001

Run Name :
Filename : tr211794

Injected : 30-JUL-2003 07:25
Caltype :

Standards: Q3WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	986.8000	ug/L	-1	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	498.0000	ug/L	0	5	
Barium	1000.000	989.0000	ug/L	-1	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2020.000	ug/L	1	5	
Chromium	200.0000	200.0000	ug/L	0	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	1004.000	ug/L	0	5	
Lead	500.0000	501.0000	ug/L	0	5	
Magnesium	2000.000	2003.000	ug/L	0	5	
Manganese	100.0000	99.80000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	500.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	997.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285002

Run Name :
Filename : tr211795

Injected : 30-JUL-2003 07:33
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	462.4000	ug/L	-8		10	
Antimony	500.0000	450.0000	ug/L	-10		10	
Arsenic	250.0000	250.0000	ug/L	0		10	
Barium	500.0000	487.0000	ug/L	-3		10	
Beryllium	50.00000	51.30000	ug/L	3		10	
Cadmium	50.00000	48.60000	ug/L	-3		10	
Calcium	1000.000	1038.000	ug/L	4		10	
Chromium	100.0000	100.0000	ug/L	0		10	
Cobalt	250.0000	248.0000	ug/L	-1		10	
Copper	100.0000	102.0000	ug/L	2		10	
Iron	500.0000	505.5000	ug/L	1		10	
Lead	250.0000	235.0000	ug/L	-6		10	
Magnesium	1000.000	1027.000	ug/L	3		10	
Manganese	50.00000	49.90000	ug/L	0		10	
Molybdenum	500.0000	481.0000	ug/L	-4		10	
Nickel	250.0000	252.0000	ug/L	1		10	
Selenium	250.0000	240.0000	ug/L	-4		10	
Silver	50.00000	49.00000	ug/L	-2		10	
Thallium	250.0000	244.0000	ug/L	-2		10	
Titanium	500.0000	506.0000	ug/L	1		10	
Vanadium	250.0000	249.0000	ug/L	0		10	
Zinc	50.00000	50.30000	ug/L	1		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285004

Run Name :
Filename : tr211797

Injected : 30-JUL-2003 07:41
Caltpe :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	107.1000	ug/L	7	50
Antimony	60.00000	60.40000	ug/L	1	50
Arsenic	5.000000	4.290000	ug/L	-14	50
Barium	10.00000	9.850000	ug/L	-2	50
Beryllium	2.000000	2.160000	ug/L	8	50
Cadmium	5.000000	4.830000	ug/L	-3	50
Chromium	10.00000	9.680000	ug/L	-3	50
Cobalt	20.00000	19.60000	ug/L	-2	50
Copper	10.00000	11.20000	ug/L	12	50
Iron	100.0000	107.8000	ug/L	8	50
Lead	3.000000	1.720000	ug/L	-43	50
Manganese	10.00000	9.910000	ug/L	-1	50
Molybdenum	20.00000	20.10000	ug/L	1	50
Nickel	20.00000	20.30000	ug/L	2	50
Selenium	5.000000	3.540000	ug/L	-29	50
Silver	5.000000	4.910000	ug/L	-2	50
Thallium	5.000000	5.670000	ug/L	13	50
Vanadium	10.00000	10.30000	ug/L	3	50
Zinc	20.00000	20.50000	ug/L	3	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285014

Run Name :
Filename : tr211807

Injected : 30-JUL-2003 08:45
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	458.0000	ug/L	-8	10
Antimony		500.0000	466.0000	ug/L	-7	10
Arsenic		250.0000	256.0000	ug/L	2	10
Barium		500.0000	494.0000	ug/L	-1	10
Beryllium		50.00000	50.20000	ug/L	0	10
Cadmium		50.00000	49.00000	ug/L	-2	10
Calcium		1000.000	1031.000	ug/L	3	10
Chromium		100.0000	99.70000	ug/L	0	10
Cobalt		250.0000	248.0000	ug/L	-1	10
Copper		100.0000	103.0000	ug/L	3	10
Iron		500.0000	506.2000	ug/L	1	10
Lead		250.0000	251.0000	ug/L	0	10
Magnesium		1000.000	1009.000	ug/L	1	10
Manganese		50.00000	49.70000	ug/L	-1	10
Molybdenum		500.0000	499.0000	ug/L	0	10
Nickel		250.0000	246.0000	ug/L	-2	10
Selenium		250.0000	243.0000	ug/L	-3	10
Silver		50.00000	50.40000	ug/L	1	10
Thallium		250.0000	237.0000	ug/L	-5	10
Titanium		500.0000	510.0000	ug/L	2	10
Vanadium		250.0000	248.0000	ug/L	-1	10
Zinc		50.00000	50.30000	ug/L	1	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285026

Run Name :
Filename : tr211819

Injected : 30-JUL-2003 09:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	483.3000	ug/L	-3	10	
Antimony		500.0000	469.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	50.50000	ug/L	1	10	
Cadmium		50.00000	48.00000	ug/L	-4	10	
Calcium		1000.000	1053.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	496.2000	ug/L	-1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1023.000	ug/L	2	10	
Manganese		50.00000	49.20000	ug/L	-2	10	
Molybdenum		500.0000	498.0000	ug/L	0	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	50.80000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285039

Run Name :
Filename : tr211832

Injected : 30-JUL-2003 11:06
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	769.0000	ug/L	3	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1514.000	ug/L	1	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	371.0000	ug/L	-1	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	800.4000	ug/L	7	10	
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1523.000	ug/L	2	10	
Manganese		75.00000	74.40000	ug/L	-1	10	
Molybdenum		750.0000	782.0000	ug/L	4	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	380.0000	ug/L	1	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	759.0000	ug/L	1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	74.90000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltype :

Standards: Q3WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5	10	
Antimony		500.0000	465.0000	ug/L	-7	10	
Arsenic		250.0000	266.0000	ug/L	6	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.00000	ug/L	2	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	988.1000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	509.2000	ug/L	2	10	
Lead		250.0000	259.0000	ug/L	4	10	
Magnesium		1000.000	1012.000	ug/L	1	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	526.0000	ug/L	5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	263.0000	ug/L	5	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5	10	
Antimony		500.0000	465.0000	ug/L	-7	10	
Arsenic		250.0000	266.0000	ug/L	6	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.00000	ug/L	2	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	988.1000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	509.2000	ug/L	2	10	
Lead		250.0000	259.0000	ug/L	4	10	
Magnesium		1000.000	1012.000	ug/L	1	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	526.0000	ug/L	5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	263.0000	ug/L	5	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285063

Run Name :
Filename : tr211858

Injected : 30-JUL-2003 12:49
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	243.6000	ug/L	-3	10	
Antimony		250.0000	258.0000	ug/L	3	10	
Arsenic		125.0000	137.0000	ug/L	10	10	
Barium		250.0000	255.0000	ug/L	2	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.50000	ug/L	2	10	
Calcium		500.0000	494.2000	ug/L	-1	10	
Chromium		50.00000	51.20000	ug/L	2	10	
Cobalt		125.0000	126.0000	ug/L	1	10	
Copper		50.00000	51.20000	ug/L	2	10	
Iron		250.0000	265.3000	ug/L	6	10	
Lead		125.0000	120.0000	ug/L	-4	10	
Magnesium		500.0000	521.4000	ug/L	4	10	
Manganese		25.00000	24.60000	ug/L	-2	10	
Molybdenum		250.0000	248.0000	ug/L	-1	10	
Nickel		125.0000	132.0000	ug/L	6	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	24.50000	ug/L	-2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	27.60000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285075

Run Name :
Filename : tr211870

Injected : 30-JUL-2003 13:52
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	795.1000	ug/L	6	10	
Antimony		750.0000	744.0000	ug/L	-1	10	
Arsenic		375.0000	409.0000	ug/L	9	10	
Barium		750.0000	764.0000	ug/L	2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	77.90000	ug/L	4	10	
Calcium		1500.000	1527.000	ug/L	2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	145.0000	ug/L	-3	10	
Iron		750.0000	760.4000	ug/L	1	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	70.50000	ug/L	-6	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	395.0000	ug/L	5	10	
Selenium		375.0000	392.0000	ug/L	5	10	
Silver		75.00000	72.50000	ug/L	-3	10	
Thallium		375.0000	390.0000	ug/L	4	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	361.0000	ug/L	-4	10	
Zinc		75.00000	77.90000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285087

Run Name :
Filename : tr211882

Injected : 30-JUL-2003 14:42
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	526.1000	ug/L	5		10	
Antimony		500.0000	463.0000	ug/L	-7		10	
Arsenic		250.0000	258.0000	ug/L	3		10	
Barium		500.0000	492.0000	ug/L	-2		10	
Beryllium		50.00000	51.40000	ug/L	3		10	
Cadmium		50.00000	48.40000	ug/L	-3		10	
Calcium		1000.000	1009.000	ug/L	1		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	526.7000	ug/L	5		10	
Lead		250.0000	249.0000	ug/L	0		10	
Magnesium		1000.000	1018.000	ug/L	2		10	
Manganese		50.00000	50.00000	ug/L	0		10	
Molybdenum		500.0000	494.0000	ug/L	-1		10	
Nickel		250.0000	251.0000	ug/L	0		10	
Selenium		250.0000	239.0000	ug/L	-4		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	240.0000	ug/L	-4		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	51.20000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285099

Run Name :
Filename : tr211894

Injected : 30-JUL-2003 15:28
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.7000	ug/L	3	10	
Antimony		750.0000	773.0000	ug/L	3	10	
Arsenic		375.0000	391.0000	ug/L	4	10	
Barium		750.0000	744.0000	ug/L	-1	10	
Beryllium		75.00000	77.60000	ug/L	3	10	
Cadmium		75.00000	74.60000	ug/L	-1	10	
Calcium		1500.000	1468.000	ug/L	-2	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	785.9000	ug/L	5	10	
Lead		375.0000	365.0000	ug/L	-3	10	
Magnesium		1500.000	1528.000	ug/L	2	10	
Manganese		75.00000	74.30000	ug/L	-1	10	
Molybdenum		750.0000	737.0000	ug/L	-2	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	759.0000	ug/L	1	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	76.10000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285111

Run Name :
Filename : tr211906

Injected : 30-JUL-2003 16:15
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	523.1000	ug/L	5	10	
Antimony		500.0000	473.0000	ug/L	-5	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	504.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	548.3000	ug/L	10	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.60000	ug/L	-1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.10000	ug/L	6	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285003
Filename: tr211796

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 30-JUL-2003 07:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2540]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[25.520]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.5800]		10.00000	ug/L	<	RL
Iron	[10.500]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.4260]		500.0000	ug/L	<	RL
Manganese	[0.0660]		10.00000	ug/L	<	RL
Molybdenum	[5.1800]		20.00000	ug/L	<	RL
Nickel	[0.5370]		20.00000	ug/L	<	RL
Selenium	[1.7300]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[0.5540]		5.000000	ug/L	<	RL
Titanium	[1.9400]		10.00000	ug/L	<	RL
Vanadium	[0.1210]		10.00000	ug/L	<	RL
Zinc	[0.5080]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285015
Filename: tr211808

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 08:52

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	[10.300]	60.00000		ug/L	<	RL
Arsenic	[1.5000]	5.000000		ug/L	<	RL
Barium	[0.4090]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[81.470]	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	[0.1380]	10.00000		ug/L	<	RL
Copper	[3.0500]	10.00000		ug/L	<	RL
Iron	[12.610]	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[18.550]	500.0000		ug/L	<	RL
Manganese	[0.3470]	10.00000		ug/L	<	RL
Molybdenum	[9.0000]	20.00000		ug/L	<	RL
Nickel	[0.2410]	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	[0.1070]	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[2.4600]	10.00000		ug/L	<	RL
Vanadium	[0.1750]	10.00000		ug/L	<	RL
Zinc	[0.4280]	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285027
Filename: tr211820

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 09:50

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[3.9500]	60.00000	ug/L	<	RL
Arsenic	[0.9970]	5.000000	ug/L	<	RL
Barium	[0.2090]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.2580]	5.000000	ug/L	<	RL
Calcium	[81.480]	500.0000	ug/L	<	RL
Chromium	[0.2080]	10.00000	ug/L	<	RL
Cobalt	[0.1850]	10.00000	ug/L	<	RL
Copper	[3.6200]	10.00000	ug/L	<	RL
Iron	[4.3180]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[4.6090]	500.0000	ug/L	<	RL
Manganese	[0.1070]	10.00000	ug/L	<	RL
Molybdenum	[3.6600]	20.00000	ug/L	<	RL
Nickel	[0.3950]	20.00000	ug/L	<	RL
Selenium	[1.6500]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.3500]	10.00000	ug/L	<	RL
Vanadium	[0.2530]	10.00000	ug/L	<	RL
Zinc	[0.7150]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285040
Filename: tr211833

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 11:12

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[34.180]	100.0000	ug/L	<RL	
Antimony	[0.7180]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.4080]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[66.460]	500.0000	ug/L	<RL	
Chromium	[0.0870]	10.00000	ug/L	<RL	
Cobalt	[0.1470]	10.00000	ug/L	<RL	
Copper	[3.0500]	10.00000	ug/L	<RL	
Iron	[19.140]	100.0000	ug/L	<RL	
Lead	[0.8950]	3.000000	ug/L	<RL	
Magnesium	[9.9080]	500.0000	ug/L	<RL	
Manganese	[0.3020]	10.00000	ug/L	<RL	
Molybdenum	[6.6600]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.8300]	10.00000	ug/L	<RL	
Vanadium	[0.1110]	10.00000	ug/L	<RL	
Zinc	[1.1000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.5900]	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0570]	5.000000	ug/L	<RL	
Calcium	[43.950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.0200]	10.00000	ug/L	<RL	
Iron	[4.0180]	100.0000	ug/L	<RL	
Lead	[0.3990]	3.000000	ug/L	<RL	
Magnesium	[2.2740]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[1.4800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.7100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.5900]	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0570]	5.000000	ug/L	<RL	
Calcium	[43.950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.0200]	10.00000	ug/L	<RL	
Iron	[4.0180]	100.0000	ug/L	<RL	
Lead	[0.3990]	3.000000	ug/L	<RL	
Magnesium	[2.2740]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[1.4800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.7100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285064
Filename: tr211859

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 13:00

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[6.4490]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1090]	10.00000	ug/L	<RL	
Beryllium	[0.1500]	2.000000	ug/L	<RL	
Cadmium	[0.1500]	5.000000	ug/L	<RL	
Calcium	[19.130]	500.0000	ug/L	<RL	
Chromium	[0.2170]	10.00000	ug/L	<RL	
Cobalt	[0.3870]	10.00000	ug/L	<RL	
Copper	[0.6960]	10.00000	ug/L	<RL	
Iron	[14.640]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[10.730]	500.0000	ug/L	<RL	
Manganese	[0.1740]	10.00000	ug/L	<RL	
Molybdenum	[1.1500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.5800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.5800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285076
Filename: tr211871

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:01

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[49.290]	100.0000	ug/L	<RL	
Antimony	[8.2200]	60.00000	ug/L	<RL	
Arsenic	[0.6290]	5.000000	ug/L	<RL	
Barium	[0.4790]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.2840]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.4510]	10.00000	ug/L	<RL	
Cobalt	[0.3240]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[11.880]	100.0000	ug/L	<RL	
Lead	[0.6550]	3.000000	ug/L	<RL	
Magnesium	[6.5550]	500.0000	ug/L	<RL	
Manganese	[0.2320]	10.00000	ug/L	<RL	
Molybdenum	[11.600]	20.00000	ug/L	<RL	
Nickel	[0.6950]	20.00000	ug/L	<RL	
Selenium	[2.8400]	5.000000	ug/L	<RL	
Silver	[0.1400]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.2500]	10.00000	ug/L	<RL	
Vanadium	[0.0230]	10.00000	ug/L	<RL	
Zinc	[2.1600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285088
Filename: tr211883

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:49

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[53.270]	100.0000	ug/L	<RL	
Antimony	[10.600]	60.00000	ug/L	<RL	
Arsenic	[1.0000]	5.000000	ug/L	<RL	
Barium	[0.3220]	10.00000	ug/L	<RL	
Beryllium	[0.7420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1500]	10.00000	ug/L	<RL	
Cobalt	[0.1280]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.610]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.2400]	500.0000	ug/L	<RL	
Manganese	[0.2460]	10.00000	ug/L	<RL	
Molybdenum	[7.5400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[5.5200]	10.00000	ug/L	<RL	
Vanadium	[0.2930]	10.00000	ug/L	<RL	
Zinc	[1.7800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285100
Filename: tr211895

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 15:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[75.490]	100.0000	ug/L	<RL	
Antimony	[4.7200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.3020]	10.00000	ug/L	<RL	
Beryllium	[1.4300]	2.000000	ug/L	<RL	
Cadmium	[0.0240]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1820]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.330]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.5880]	500.0000	ug/L	<RL	
Manganese	[0.3470]	10.00000	ug/L	<RL	
Molybdenum	[8.5100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1560]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.8700]	10.00000	ug/L	<RL	
Vanadium	[0.2710]	10.00000	ug/L	<RL	
Zinc	[2.0700]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285112
Filename: tr211907

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 16:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[1.8800]	60.00000	ug/L	<RL	
Arsenic	[0.9160]	5.000000	ug/L	<RL	
Barium	[0.1680]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0650]	10.00000	ug/L	<RL	
Cobalt	[0.0780]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[15.940]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[8.6550]	500.0000	ug/L	<RL	
Manganese	[0.2490]	10.00000	ug/L	<RL	
Molybdenum	[3.0700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0720]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.0300]	10.00000	ug/L	<RL	
Vanadium	[0.1980]	10.00000	ug/L	<RL	
Zinc	[2.2300]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285005

Run Name :
Filename : tr211798

Injected : 30-JUL-2003 07:55
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	510900.0	ug/L	2			
Antimony	500.0000	467.0000	ug/L	-7	20		
Arsenic	500.0000	528.0000	ug/L	6	20		
Barium	500.0000	495.0000	ug/L	-1	20		
Beryllium	500.0000	516.0000	ug/L	3	20		
Cadmium	1000.000	963.0000	ug/L	-4	20		
Calcium	500000.0	484600.0	ug/L	-3			
Chromium	500.0000	486.0000	ug/L	-3	20		
Cobalt	500.0000	485.0000	ug/L	-3	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	189900.0	ug/L	-5			
Lead	1000.000	876.0000	ug/L	-12	20		
Magnesium	500000.0	527800.0	ug/L	6			
Manganese	500.0000	499.0000	ug/L	0	20		
Molybdenum	500.0000	473.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	497.0000	ug/L	-1	20		
Silver	1000.000	1070.000	ug/L	7	20		
Thallium	500.0000	483.0000	ug/L	-3	20		
Titanium	20000.00	2050.000	ug/L	-90			
Vanadium	500.0000	500.0000	ug/L	0	20		
Zinc	1000.000	1010.000	ug/L	1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285028

Run Name :
Filename : tr211821

Injected : 30-JUL-2003 09:54
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	516100.0	ug/L	3			
Antimony	500.0000	453.0000	ug/L	-9	20		
Arsenic	500.0000	539.0000	ug/L	8	20		
Barium	500.0000	507.0000	ug/L	1	20		
Beryllium	500.0000	520.0000	ug/L	4	20		
Cadmium	1000.000	960.0000	ug/L	-4	20		
Calcium	500000.0	453200.0	ug/L	-9			
Chromium	500.0000	488.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	185100.0	ug/L	-7			
Lead	1000.000	877.0000	ug/L	-12	20		
Magnesium	500000.0	529100.0	ug/L	6			
Manganese	500.0000	491.0000	ug/L	-2	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	512.0000	ug/L	2	20		
Silver	1000.000	1060.000	ug/L	6	20		
Thallium	500.0000	479.0000	ug/L	-4	20		
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	498.0000	ug/L	0	20		
Zinc	1000.000	1020.000	ug/L	2	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285113

Run Name :
Filename : tr211908

Injected : 30-JUL-2003 16:25
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	524600.0	ug/L	5			
Antimony	500.0000	499.0000	ug/L	0	20		
Arsenic	500.0000	548.0000	ug/L	10	20		
Barium	500.0000	518.0000	ug/L	4	20		
Beryllium	500.0000	502.0000	ug/L	0	20		
Cadmium	1000.000	990.0000	ug/L	-1	20		
Calcium	500000.0	450400.0	ug/L	-10			
Chromium	500.0000	499.0000	ug/L	0	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	524.0000	ug/L	5	20		
Iron	200000.0	186100.0	ug/L	-7			
Lead	1000.000	901.0000	ug/L	-10	20		
Magnesium	500000.0	520400.0	ug/L	4			
Manganese	500.0000	490.0000	ug/L	-2	20		
Molybdenum	500.0000	494.0000	ug/L	-1	20		
Nickel	1000.000	1070.000	ug/L	7	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	945.0000	ug/L	-6	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2120.000	ug/L	-89			
Vanadium	500.0000	499.0000	ug/L	0	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
001	tr211794	CS				30-JUL-2003 07:25	1.0	1.0				1		
002	tr211795	ICV				30-JUL-2003 07:33	1.0	1.0				2		
003	tr211796	ICB				30-JUL-2003 07:37	1.0	1.0						
004	tr211797	CRI				30-JUL-2003 07:41	1.0	1.0				3		
005	tr211798	ICSAB				30-JUL-2003 07:55	1.0	1.0				4		4:MG=527800
006	tr211799	BLANK	QC220611	83258	Soil	30-JUL-2003 07:59	1.0	50.0						
007	tr211800	BS	QC220612	83258	Soil	30-JUL-2003 08:04	1.0	50.0						
008	tr211801	BSD	QC220613	83258	Soil	30-JUL-2003 08:08	1.0	50.0						
009	tr211802	MSS	166560-016	83258	Soil	30-JUL-2003 08:16	1.0	43.66812	2					2:FE=423300
010	tr211803	SER	QC220616	83258	Soil	30-JUL-2003 08:20	5.0	43.66812	1	1				
011	tr211804	MS	QC220614	83258	Soil	30-JUL-2003 08:24	1.0	46.29630			1			2:FE=377900
012	tr211805	MSD	QC220615	83258	Soil	30-JUL-2003 08:28	1.0	39.84064						2:FE=471200
013	tr211806	PDS	QC220628	83258	Soil	30-JUL-2003 08:34	1.0	43.66812				5	6	2:FE=433300
014	tr211807	CCV				30-JUL-2003 08:45	1.0	1.0				7		
015	tr211808	CCB				30-JUL-2003 08:52	1.0	1.0						
016	tr211809	SAMPLE	166590-001	83258	Soil	30-JUL-2003 08:57	1.0	46.72897						2:MG=782100
017	tr211810	SAMPLE	166590-002	83258	Soil	30-JUL-2003 09:01	1.0	46.51163						2:MG=742700
018	tr211811	SAMPLE	166590-003	83258	Soil	30-JUL-2003 09:04	1.0	47.39336						2:MG=777700
019	tr211812	SAMPLE	166590-004	83258	Soil	30-JUL-2003 09:08	1.0	37.87879	1					1:MG=118700
020	tr211813	SAMPLE	166590-004	83258	Soil	30-JUL-2003 09:15	50.0	37.87879						5:PB=750000
021	tr211814	SAMPLE	166495-003	83172	Water	30-JUL-2003 09:19	1.0	1.0						2:MG=782100
022	tr211815	SAMPLE	166495-004	83172	Water	30-JUL-2003 09:23	1.0	1.0						2:MG=742700
023	tr211816	SAMPLE	166495-005	83172	Water	30-JUL-2003 09:27	1.0	1.0						2:MG=777700
024	tr211817	SAMPLE	166547-006	83172	Water	30-JUL-2003 09:31	1.0	1.0						1:MG=118700
025	tr211818	SER	QC220616	83258	Soil	30-JUL-2003 09:35	5.0	43.66812	3					
026	tr211819	CCV				30-JUL-2003 09:44	1.0	1.0				7		
027	tr211820	CCB				30-JUL-2003 09:50	1.0	1.0						
028	tr211821	ICSAB				30-JUL-2003 09:54	1.0	1.0				4		4:MG=529100
029	tr211822	BLANK	QC220319	83185	Soil	30-JUL-2003 09:59	1.0	50.0						
030	tr211823	BS	QC220320	83185	Soil	30-JUL-2003 10:06	1.0	50.0						
031	tr211824	BSD	QC220321	83185	Soil	30-JUL-2003 10:09	1.0	50.0						
032	tr211825	MSS	166535-021	83185	Soil	30-JUL-2003 10:14	1.0	47.39336	1					1:FE=138300

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Neu Date: 7/30/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
033	tr211826	SER	QC220324	83185	Soil	30-JUL-2003	10:21 5.0	47.39336	1					
034	tr211827	MSS	166535-021	83185	Soil	30-JUL-2003	10:25 10.0	47.39336						
035	tr211828	SER	QC220324	83185	Soil	30-JUL-2003	10:50 5.0	47.39336	1					
036	tr211829	SER	QC220324	83185	Soil	30-JUL-2003	10:53 50.0	47.39336	1					
037	tr211830	MS	QC220322	83185	Soil	30-JUL-2003	10:57 1.0	48.07692	1	2				2:FE=175900
038	tr211831	MSD	QC220323	83185	Soil	30-JUL-2003	11:01 1.0	47.84689	1	2				2:FE=177700
039	tr211832	CCV				30-JUL-2003	11:06 1.0	1.0				8		
040	tr211833	CCB				30-JUL-2003	11:12 1.0	1.0						
041	tr211834	SAMPLE	166535-022	83185	Soil	30-JUL-2003	11:16 1.0	45.66210						2:FE=248200
042	tr211835	SAMPLE	166535-023	83185	Soil	30-JUL-2003	11:19 1.0	47.16981						2:FE=226000
043	tr211836	SAMPLE	166535-024	83185	Soil	30-JUL-2003	11:23 1.0	46.94836						1:FE=138400
044	tr211837	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:26 1.0	48.07692	1					1:FE=124500
045	tr211838	SAMPLE	166535-027	83185	Soil	30-JUL-2003	11:30 1.0	48.07692	1					1:FE=140000
046	tr211839	SAMPLE	166535-028	83185	Soil	30-JUL-2003	11:33 1.0	46.51163						1:FE=172800
047	tr211840	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:37 1.0	45.45455	2					1:FE=155800
048	tr211841	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:41 1.0	48.07692						1:FE=126500
049	tr211842	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:44 1.0	45.45455	1					1:FE=153600
050	tr211843	PDS	QC220661	83185	Soil	30-JUL-2003	11:48 1.0	47.39336				9	10	1:FE=161200
051	tr211844	CCV				30-JUL-2003	11:59 1.0	1.0				7		
052	tr211846	CCB				30-JUL-2003	12:07 1.0	1.0						
053	tr211848	SAMPLE	166535-027	83185	Soil	30-JUL-2003	12:12 10.0	48.07692	1					
054	tr211849	SAMPLE	166535-029	83185	Soil	30-JUL-2003	12:16 10.0	45.45455						
055	tr211850	SAMPLE	166535-030	83185	Soil	30-JUL-2003	12:19 1.0	45.24887						1:FE=168800
056	tr211851	SAMPLE	166535-031	83185	Soil	30-JUL-2003	12:23 1.0	47.39336						1:FE=143300
057	tr211852	SAMPLE	166535-032	83185	Soil	30-JUL-2003	12:26 1.0	46.72897						1:FE=158800
058	tr211853	SAMPLE	166535-033	83185	Soil	30-JUL-2003	12:30 1.0	48.54369						1:FE=119200
059	tr211854	SAMPLE	166535-034	83185	Soil	30-JUL-2003	12:33 1.0	45.24887						1:FE=139700
060	tr211855	SAMPLE	166535-035	83185	Soil	30-JUL-2003	12:37 1.0	46.08295						1:FE=133500
061	tr211856	MS	QC220322	83185	Soil	30-JUL-2003	12:40 10.0	48.07692		3				
062	tr211857	MSD	QC220323	83185	Soil	30-JUL-2003	12:44 10.0	47.84689		3				
063	tr211858	CCV				30-JUL-2003	12:49 1.0	1.0				11		
064	tr211859	CCB				30-JUL-2003	13:00 1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: N. M. W. W.

Date: 7/30/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285

Instrument: MET07

TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
065	tr211860	BLANK	QC220313	83184	Soil	30-JUL-2003	13:03	1.0	50.0					
066	tr211861	BS	QC220314	83184	Soil	30-JUL-2003	13:07	1.0	50.0					
067	tr211862	BSD	QC220315	83184	Soil	30-JUL-2003	13:11	1.0	50.0					
068	tr211863	MSS	166535-014	83184	Soil	30-JUL-2003	13:15	1.0	42.01681	2				1:FE=165000
069	tr211864	MSS	166535-014	83184	Soil	30-JUL-2003	13:19	1.0	42.01681	1				1:FE=164800
070	tr211865	MSS	166535-014	83184	Soil	30-JUL-2003	13:22	10.0	42.01681					
071	tr211866	SEB	QC220318	83184	Soil	30-JUL-2003	13:26	5.0	42.01681					
072	tr211867	SEB	QC220318	83184	Soil	30-JUL-2003	13:40	50.0	42.01681	1				
073	tr211868	MS	QC220316	83184	Soil	30-JUL-2003	13:43	1.0	45.04505					2:FE=184000
074	tr211869	MSD	QC220317	83184	Soil	30-JUL-2003	13:47	1.0	48.54369					2:FE=183400
075	tr211870	CCV				30-JUL-2003	13:52	1.0	1.0				8	
076	tr211871	CCB				30-JUL-2003	14:01	1.0	1.0					
077	tr211872	SAMPLE	166535-001	83184	Soil	30-JUL-2003	14:04	1.0	46.51163	1				1:FE=137200
078	tr211873	SAMPLE	166535-002	83184	Soil	30-JUL-2003	14:08	1.0	44.64286					1:FE=140900
079	tr211874	SAMPLE	166535-003	83184	Soil	30-JUL-2003	14:11	1.0	45.24887					1:FE=136500
080	tr211875	SAMPLE	166535-004	83184	Soil	30-JUL-2003	14:15	1.0	45.66210					1:FE=113400
081	tr211876	SAMPLE	166535-005	83184	Soil	30-JUL-2003	14:18	1.0	45.24887					1:FE=122000
082	tr211877	SAMPLE	166535-006	83184	Soil	30-JUL-2003	14:22	1.0	47.84689	1				1:FE=110900
083	tr211878	SAMPLE	166535-007	83184	Soil	30-JUL-2003	14:25	1.0	44.24779					3:CA=1062000
084	tr211879	SAMPLE	166535-008	83184	Soil	30-JUL-2003	14:29	1.0	45.45455	1				1:FE=144100
085	tr211880	SAMPLE	166535-009	83184	Soil	30-JUL-2003	14:32	1.0	45.04505	1				1:FE=123500
086	tr211881	SAMPLE	166535-010	83184	Soil	30-JUL-2003	14:36	1.0	45.87156					1:FE=147600
087	tr211882	CCV				30-JUL-2003	14:42	1.0	1.0				7	
088	tr211883	CCB				30-JUL-2003	14:49	1.0	1.0					
089	tr211884	SAMPLE	166535-001	83184	Soil	30-JUL-2003	14:52	1.0	46.51163					1:FE=139100
090	tr211885	SAMPLE	166535-006	83184	Soil	30-JUL-2003	14:56	1.0	47.84689					1:FE=109400
091	tr211886	SAMPLE	166535-008	83184	Soil	30-JUL-2003	14:59	10.0	45.45455	1				
092	tr211887	SAMPLE	166535-009	83184	Soil	30-JUL-2003	15:03	10.0	45.04505	1				
093	tr211888	SAMPLE	166535-036	83185	Soil	30-JUL-2003	15:07	1.0	47.16981					1:FE=144800
094	tr211889	SAMPLE	166535-037	83185	Soil	30-JUL-2003	15:10	1.0	44.64286					1:FE=156400
095	tr211890	SAMPLE	166535-038	83185	Soil	30-JUL-2003	15:13	1.0	45.45455					1:FE=137700
096	tr211891	SAMPLE	166535-039	83185	Soil	30-JUL-2003	15:17	1.0	45.04505					1:FE=124800

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Me Wu Date: 7/30/03
Page 3 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
097	tr211892	SAMPLE	166535-040	83185	Soil	30-JUL-2003 15:20	1.0	48.30918					1:FE=130500	
098	tr211893	SAMPLE	166535-041	83185	Soil	30-JUL-2003 15:24	1.0	47.61905					1:FE=143900	
099	tr211894	CCV				30-JUL-2003 15:28	1.0	1.0				8		
100	tr211895	CCV				30-JUL-2003 15:33	1.0	1.0						
101	tr211896	SAMPLE	166535-011	83184	Soil	30-JUL-2003 15:36	1.0	46.94836					1:FE=141900	
102	tr211897	SAMPLE	166535-012	83184	Soil	30-JUL-2003 15:40	1.0	45.66210					1:FE=159300	
103	tr211898	SAMPLE	166535-013	83184	Soil	30-JUL-2003 15:43	1.0	48.78049					1:FE=139500	
104	tr211899	SAMPLE	166535-015	83184	Soil	30-JUL-2003 15:47	1.0	47.39336					1:FE=139600	
105	tr211900	SAMPLE	166535-016	83184	Soil	30-JUL-2003 15:50	1.0	44.24779					1:FE=157700	
106	tr211901	SAMPLE	166535-017	83184	Soil	30-JUL-2003 15:54	1.0	47.16981					1:FE=128400	
107	tr211902	SAMPLE	166535-018	83184	Soil	30-JUL-2003 15:57	1.0	46.29630					1:FE=157200	
108	tr211903	SAMPLE	166535-019	83184	Soil	30-JUL-2003 16:01	1.0	45.24887					1:FE=143100	
109	tr211904	SAMPLE	166535-020	83184	Soil	30-JUL-2003 16:04	1.0	43.85965					1:FE=167000	
110	tr211905	SAMPLE	166560-001	83258	Soil	30-JUL-2003 16:08	1.0	45.24887					2:FE=216500	
111	tr211906	CCV				30-JUL-2003 16:15	1.0	1.0				7		
112	tr211907	CCV				30-JUL-2003 16:21	1.0	1.0						
113	tr211908	ICSAB				30-JUL-2003 16:25	1.0	1.0				4	4:AL=524600	
114	tr211909	SAMPLE	166560-002	83258	Soil	30-JUL-2003 16:28	1.0	43.85965	2				3:FE=386100	
115	tr211910	SAMPLE	166560-004	83258	Soil	30-JUL-2003 16:32	1.0	41.8410					2:FE=253400	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Neuer Date: 7/30/03

REPORTING SUMMARY FOR 166535 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166535-001	MET07	07/30/03	1.0				+					+		+								+
166535-001	MET07	07/30/03	1.0		+																	
166535-002	MET07	07/30/03	1.0		+		+					+		+								+
166535-003	MET07	07/30/03	1.0		+		+					+		+								+
166535-004	MET07	07/30/03	1.0		+		+					+		+								+
166535-005	MET07	07/30/03	1.0		+		+					+		+								+
166535-006	MET07	07/30/03	1.0		+		+					+										+
166535-006	MET07	07/30/03	1.0											+								
166535-007	MET07	07/30/03	1.0		+		+					+		+								+
166535-008	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166535-008	MET07	07/30/03	10.0										+									
166535-009	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166535-009	MET07	07/30/03	10.0										+									
166535-010	MET07	07/30/03	1.0		+		+					+		+								+
166535-011	MET07	07/30/03	1.0		+		+					+		+								+
166535-012	MET07	07/30/03	1.0		+		+					+		+								+
166535-013	MET07	07/30/03	1.0		+		+					+		+								+
166535-014	MET07	07/30/03	1.0		+		+					+										+
166535-014	MET07	07/30/03	1.0											+								
166535-014	MET07	07/30/03	10.0																			
166535-015	MET07	07/30/03	1.0		+		+					+		+								+
166535-016	MET07	07/30/03	1.0		+		+					+		+								+
166535-017	MET07	07/30/03	1.0		+		+					+		+								+
166535-018	MET07	07/30/03	1.0		+		+					+		+								+
166535-019	MET07	07/30/03	1.0		+		+					+		+								+
166535-020	MET07	07/30/03	1.0		+		+					+		+								+
166535-021	MET07	07/30/03	1.0		+		+					+		+								+
166535-021	MET07	07/30/03	10.0																			
166535-022	MET07	07/30/03	1.0		+		+					+		+								+
166535-023	MET07	07/30/03	1.0		+		+					+		+								+
166535-024	MET07	07/30/03	1.0		+		+					+		+								+

REPORTING SUMMARY FOR 166535 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166535-025	MET07	07/30/03	1.0		+		+					+										+
166535-025	MET07	07/30/03	1.0											+								
166535-027	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166535-027	MET07	07/30/03	10.0										+									
166535-028	MET07	07/30/03	1.0		+		+					+		+								+
166535-029	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+
166535-029	MET07	07/30/03	1.0											+								
166535-029	MET07	07/30/03	10.0										+									
166535-030	MET07	07/30/03	1.0		+		+					+		+								+
166535-031	MET07	07/30/03	1.0		+		+					+		+								+
166535-032	MET07	07/30/03	1.0		+		+					+		+								+
166535-033	MET07	07/30/03	1.0		+		+					+		+								+
166535-034	MET07	07/30/03	1.0		+		+					+		+								+
166535-035	MET07	07/30/03	1.0		+		+					+		+								+
166535-036	MET07	07/30/03	1.0		+		+					+		+								+
166535-037	MET07	07/30/03	1.0		+		+					+		+								+
166535-038	MET07	07/30/03	1.0		+		+					+		+								+
166535-039	MET07	07/30/03	1.0		+		+					+		+								+
166535-040	MET07	07/30/03	1.0		+		+					+		+								+
166535-041	MET07	07/30/03	1.0		+		+					+		+								+
166535-042	MET07	07/29/03	1.0		+		+					+		+								+
166535-043	MET07	07/29/03	1.0				+					+		+								+
166535-043	MET07	07/29/03	1.0		+																	
166535-044	MET07	07/29/03	1.0		+		+					+		+								+
166535-045	MET07	07/29/03	1.0		+		+					+		+								+
166535-046	MET07	07/29/03	1.0		+		+					+		+								+
166535-047	MET07	07/29/03	1.0		+		+					+		+								+
166535-048	MET07	07/29/03	1.0		+		+					+		+								+
166535-049	MET07	07/29/03	1.0		+		+					+		+								+

REPORTING SUMMARY FOR 166535 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166535-050	MET07	07/29/03	1.0		+		+					+		+								+
166535-051	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166535-051	MET07	07/29/03	10.0										+									
166535-052	MET07	07/29/03	1.0		+		+					+		+								+
166535-053	MET07	07/29/03	1.0		+		+					+		+								+
166535-054	MET07	07/29/03	1.0		+		+					+		+								+
166535-055	MET07	07/29/03	1.0		+		+					+		+								+
166535-056	MET07	07/29/03	1.0		+		+					+		+								+
166535-057	MET07	07/29/03	1.0		+		+					+		+								+
166535-058	MET07	07/29/03	1.0		+		+					+		+								+
166535-059	MET07	07/29/03	1.0		+		+					+		+								+
166535-060	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166535-060	MET07	07/29/03	10.0										+									
QC220313	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220314	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220315	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220316	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220317	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220318	MET07	07/30/03	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220318	MET07	07/30/03	50.0										+									
QC220319	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220320	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220321	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220322	MET07	07/30/03	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220322	MET07	07/30/03	10.0	+																		
QC220323	MET07	07/30/03	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220323	MET07	07/30/03	10.0	+																		
QC220324	MET07	07/30/03	5.0	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220324	MET07	07/30/03	5.0			+																
QC220324	MET07	07/30/03	50.0										+									
QC220661	MET07	07/30/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166535 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N	
QC220325	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220326	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220327	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220328	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220329	MET07	07/29/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC220330	MET07	07/29/03	5.0	+	+		+	+	+	+	+	+		+	+	+	+		+	+	+	+	
QC220330	MET07	07/29/03	5.0			+											+						

Curtis & Tompkins Laboratories

Sample Preparation Summary

26-JUL-2003 21:30

Batch Number : 83186
Date Extracted: 26-JUL-2003
Extracted by : Patricia V. Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init Wt	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166535-042		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				BA, CU, PB, SB, ZN	
166535-043		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				BA, CU, PB, SB, ZN	
166535-044		Treadwell & Rollo	Soil	2.52	g	100	39.6825	1				BA, CU, PB, SB, ZN	
166535-045		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166535-046		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166535-047		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166535-048		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN	
166535-049		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166535-050		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166535-051		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				TAL/ICP	mss
166535-052		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	
166535-053		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				BA, CU, PB, SB, ZN	
166535-054		Treadwell & Rollo	Soil	2.25	g	100	44.4444	1				BA, CU, PB, SB, ZN	
166535-055		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN	
166535-056		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				BA, CU, PB, SB, ZN	
166535-057		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166535-058		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				BA, CU, PB, SB, ZN	
166535-059		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-060		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				TAL/ICP	
166540-001		LA Chemical	Miscell.	2.06	g	100	48.5436	1				ZN	
QC220325	BLANK		Soil	2	g	100	50	1				ICAP	
QC220326	BS		Soil	2	g	100	50	1	1			ICAP	
QC220327	BSD		Soil	2	g	100	50	1	1			ICAP	
QC220328	MS	of 166535-051	Soil	2.13	g	100	46.9483	1	1			ICAP	
QC220329	MSD	of 166535-051	Soil	2.11	g	100	47.3933	1	1			ICAP	
QC220330	SER	of 166535-051	Soil	2.11	g	100	47.3933	1	1			ICAP	

Prep Chemist: Patricia Vergara

Reviewed By: MW

Date: 7/29/03

Relinquished By: Patricia Vergara

Received By: MW

Date: 7/29/03

07/24/03

Batch# 83186

ICHP/M 3050

SAMPLE ID	INITIAL (g)	FINAL VOL (ml)	FILTERED YES/NO	COMMENTS
A 166535-042	2.24	100.0	YES	SPIKES
043	2.22			✓ 0855286 (1.0ml)
044	2.52			✓ 0355287
045	2.28			
046	2.12			Reagents
047	2.28			141 HNO ₃ J. BAKER # 108024/072303
048	2.19			HNO ₃ J. BAKER # 105050
049	2.13			A202 WUR # 42295317
050	2.14			141 HCL J. BAKER # 112028/072303
051 (MISS)	2.11			
052	2.33			
053	2.07			
054	2.25			
055	2.04			
056	2.16			
057	2.02			
058	2.16			
059	2.21			
060	2.16			
166540-001	2.06			
UBQC 220325				
✓ BS 220324				
✓ BS 220327				
✓ MS-6535-051	2.13			
✓ MS-6535-051	2.11			

Continued on Page

Read and Understood By

Patricia Vergara

Signed

07/24/03

Date

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Signed

mw

7/29/03

Date

Curtis & Tompkins Laboratories Sample Preparation Summary 26-JUL-2003 21:21

Batch Number : 83184
 Date Extracted: 26-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Prep Vol	D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166535-001		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166535-002		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				BA, CU, PB, SB, ZN	
166535-003		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-004		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN	
166535-005		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-006		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166535-007		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1				BA, CU, PB, SB, ZN	
166535-008		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				TAL/ICP	
166535-009		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				TAL/ICP	
166535-010		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
166535-011		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166535-012		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN	
166535-013		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166535-014		Treadwell & Rollo	Soil	2.38	g	100	42.0168	1				BA, CU, PB, SB, ZN	mss
166535-015		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166535-016		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1				BA, CU, PB, SB, ZN	
166535-017		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166535-018		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				BA, CU, PB, SB, ZN	
166535-019		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-020		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
QC220313	BLANK		Soil	2	g	100	50	1				ICAP	
QC220314	BS		Soil	2	g	100	50	1	1			ICAP	
QC220315	BSD		Soil	2	g	100	50	1	1			ICAP	
QC220316	MS	of 166535-014	Soil	2.22	g	100	45.0450	1	1			ICAP	
QC220317	MSD	of 166535-014	Soil	2.06	g	100	48.5436	1	1			ICAP	
QC220318	SER	of 166535-014	Soil	2.38	g	100	42.0168	1	1			ICAP	

Prep Chemist: Patricia Vergara Reviewed By: MW Date: 7/30/03
 Relinquished By: Patricia Vergara Received By: MW Date: 7/30/03

07/26/03		Batch# 83184		ICMP/M 3050	
SAMPLE ID	INITIALS	FINDING	FILTERED YES/NO	Comments	
A 166535-001	2.15	100.0	YES	SPIKES	
002	2.24			03SS280 (1.0mL)	
003	2.21			03SS287	
004	2.19				
005	2.21				
006	2.09				
007	2.20				
008	2.20				
009	2.22				
010	2.18				
011	2.13				
012	2.19				
013	2.05				
014 (MS)	2.38				
015	2.11				
016	2.20				
017	2.12				
018	2.10				
019	2.21				
020	2.28				
MS-OC 220313					
BS 220314					
WBS 220315					
MS-6535-014	2.22				
MSD-6535-014	2.00				

Reagents
 1:1 HNO3 JTBaker # Y0801/072303
 HNO3 JTBaker # Y05050
 H2O2 WK # 42295317
 1:1 HCL JTBaker # Y12028/072303

Continued on Page

Read and Understood By

Patricia Vazquez
 Signed

07/26/03
 Date

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[Signature]
 Signed

7/30/07
 Date

Curtis & Tompkins Laboratories

Sample Preparation Summary

30-JUL-2003 11:20

Batch Number : 83185
Date Extracted : 26-JUL-2003
Extracted by : Patricia V. Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Final D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166535-021		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	mss
166535-022		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				BA, CU, PB, SB, ZN	
166535-023		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166535-024		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166535-025		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN	
166535-027		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				TAL/ICP	
166535-028		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166535-029		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				TAL/ICP	
166535-030		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-031		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166535-032		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166535-033		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166535-034		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166535-035		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166535-036		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166535-037		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				BA, CU, PB, SB, ZN	
166535-038		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				BA, CU, PB, SB, ZN	
166535-039		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				BA, CU, PB, SB, ZN	
166535-040		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				BA, CU, PB, SB, ZN	
166535-041		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				BA, CU, PB, SB, ZN	
QC220319	BLANK		Soil	2	g	100	50	1				ICAP	
QC220320	BS		Soil	2	g	100	50	1				ICAP	
QC220321	BSD		Soil	2	g	100	50	1				ICAP	
QC220322	MS	of 166535-021	Soil	2.08	g	100	48.0769	1				ICAP	
QC220323	MSD	of 166535-021	Soil	2.09	g	100	47.8468	1				ICAP	
QC220324	SER	of 166535-021	Soil	2.11	g	100	47.3933	1				ICAP	
QC220661	PDS	of 166535-021	Soil	2.11	g	100	47.3933	1				ICAP	

Prep Chemist: MW for PVU Reviewed By: MW Date: 7/30/03Relinquished By: MW Received By: MW Date: 7/30/03

07/26/03		Batch# <u>83185</u>		ICMP/M 3050	
SAMPLE ID		INITIAL (g)	FINAL VOL (mL)	FILTERED YES/NO	COMMENTS
A	166535-021 (mass)	2.11	100.0	yes	SPIKES
	022	2.19			✓ 0355280 (1.0mL)
	023	2.12			✓ 0355287
	024	2.13			
	025	2.06			
	027	2.08			
	028	2.15			
	029	2.20			
	030	2.21			
	031	2.11			
	032	2.14			
	033	2.06			
	034	2.21			
	035	2.17			
	036	2.12			
	037	2.24			
	038	2.20			
	039	2.22			
	040	2.07			
	041	2.10			
	UB AC 220319				
	✓ BS 220320				
	✓ BS 220321				
	✓ HS-6535-21	2.08			
	✓ HS-6535-21	2.09			

REAGENTS
 1:1 HNO₃ JMWK # Y08024/072303
 HNO₃ JMWK # Y05050
 HNO₃ JMWK # Y2295317
 1:1 HCL JMWK # Y12028/072303

Continued on Page

Read and Understood By

Patricia Vergara

07/24/03

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Signed

Date

Signed

Date

Method Detection Limit Study for EPA 6010B Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplerum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83208
 Date: 07/29/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166535-001	15.2815	22.1515	22.0591	99	1
166535-002	15.4210	22.1739	22.0687	98	2
166535-003	15.4276	21.2194	21.1102	98	2
166535-004	16.0058	22.5481	21.7922	88	12
166535-005	15.5086	21.4288	21.3487	99	1
166535-006	15.3278	21.5655	21.4601	98	2
166535-007	11.2162	17.2142	16.9661	96	4
166535-008	15.3824	22.3537	21.8932	93	7
166535-009	15.2547	22.2700	21.9660	96	4
166535-010	10.9465	16.9438	16.8066	98	2
166535-011	15.8923	22.1285	21.7104	93	7
166535-012	14.7223	20.5968	20.3740	96	4
166535-013	15.4801	22.0613	21.8730	97	3
166535-014	15.2816	21.4461	21.3552	99	1
166535-015	15.4219	21.7751	21.6893	99	1
166535-016	15.4146	22.4630	21.9296	92	8
166535-017	15.1535	22.3165	21.8079	93	7
166535-018	15.5533	21.2975	21.2176	99	1
166535-019	15.1841	22.2173	22.0248	97	3
166535-020	15.3331	21.2604	21.1929	99	1
QC220423	15.4894	22.4948	22.3884	98	2
of 166535-001			RPD:	0.2%	12.1%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83208
 Date Started: 28-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166535-001		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-002		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-003		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-004		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-005		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-006		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-007		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-008		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-009		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-010		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-011		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-012		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-013		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-014		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-015		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-016		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-017		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-018		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-019		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-020		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
QC220423	SDUP	of 166535-001	Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 1741

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Continued From Page

7/28/03

83208

Sample	Dish #	Tare #	Ini. wt.	Fin wt.	Comments
BLANK	12A	10.9888	-	10.9883	
166535 -1	35	15.2815	22.1515	22.0591	
-1 DYP.	77	15.4894	22.4948	22.3884	
-2	12	15.4210	22.1739	22.0687	
-3	101	15.4276	21.2194	21.1102	
-4	77	16.0058	22.5481	21.7922	
-5	24	15.5886	21.4288	21.3487	
-6	20A	15.3278	21.5655	21.4601	
-7	1V	11.2162	17.2142	16.9661	
-8	Ø	15.3824	22.3537	21.8932	
-9	34	15.2547	22.2700	21.9600	
-10	VED	10.6465	16.4438	16.8066	
-11	10	15.8923	22.1285	21.7104	
-12	4A	14.7223	20.5968	20.3740	
-13	4	15.4801	22.0613	21.6577 ^{21.8730} _{top}	
-14	26	15.2816	21.4461	21.3552	
-15	46	15.4219	21.7751	21.6893	
-16	A	15.4146	22.4630	21.9296	
-17	DF	15.1535	22.3165	21.8079	
-18	21	15.5533	21.2975	21.2170	
-19	T	15.1841	22.2173	22.0248	
-20	7B	15.3331	21.2604	21.1929	

OVEN TEMP: 105°C

TIME IN: 9:50 AM

TIME OUT: 9:45 AM

ON: 7/29/03

Continued on Page

R. Manning

7/28/03

208

me

7/28/03

Signed

Date

Signed

Date

Percent Moisture Summary Report

Batch: 83209
 Date: 07/29/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166535-021	15.3561	21.9482	21.8056	98	2
166535-022	15.6618	21.4339	21.3763	99	1
166535-023	11.3156	18.9864	18.8066	98	2
166535-024	15.1790	21.4031	21.2142	97	3
166535-025	15.2938	21.6757	21.5316	98	2
166535-027	15.5907	21.6800	21.4207	96	4
166535-028	15.6737	21.1101	20.8755	96	4
166535-029	15.3098	21.4028	21.1137	95	5
166535-030	15.4995	22.0929	21.8882	97	3
166535-031	15.7845	21.5803	21.4646	98	2
166535-032	15.5732	22.3312	21.9344	94	6
166535-033	10.9438	16.1540	16.0323	98	2
166535-034	15.4221	21.9139	21.7394	97	3
166535-035	15.8445	21.6710	21.5325	98	2
166535-036	15.0695	21.4011	21.3123	99	1
166535-037	15.3368	22.6377	22.4782	98	2
166535-038	15.3280	21.1428	20.7101	93	7
166535-039	15.7922	22.0459	21.8917	98	2
166535-040	15.3719	22.9903	22.8295	98	2
166535-041	11.7379	17.2868	17.2004	98	2
QC220424	15.4985	21.5241	21.3731	97	3
of 166535-021			RPD:	0.4%	14.7%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83209
 Date Started: 28-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166535-021		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-022		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-023		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-024		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-025		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-027		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-028		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-029		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-030		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-031		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-032		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-033		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-034		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-035		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-036		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-037		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-038		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-039		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-040		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-041		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
QC220424	SDUP	of 166535-021	Soil	MOISTURE	

7/28/03

83204

Sample	Dish #	Tare #	Ini. wt.	Fin. wt.	Comments
BLANK	VII	11.3309	-	11.3333	
166535 - 21	MA	15.3561	21.9482	21.8050	
- 21 DWP	37	15.4985	21.5241	21.3731	
- 22	33	15.6618	21.4339	21.3763	
- 23	VI	11.3156	18.9864	18.8006	
- 24	5	15.1790	21.4031	21.2142	
- 25	1071	15.2938	21.6757	21.5316	
- 27	8X	15.5907	21.6800	21.4207	
- 28	G	15.6737	21.1101	20.8755	
- 29	30	15.3098	21.4028	21.1137	
- 30	B	15.4995	22.0929	21.8882	
- 31	XII	15.7845	21.5803	21.4646	
- 32	5X	15.5732	22.3362	21.9344	
- 33	12C	10.9438	16.1540	16.0323	
- 34	39	15.4221	21.9139	21.7394	
- 35	15D	15.8445	21.6710	21.5325	
- 36	5C	15.0695	21.4011	21.3123	
- 37	15C	15.3368	22.6377	22.4782	
- 38	Y2	15.3280	21.1428	20.7101	
- 39	17A	15.7922	22.0459	21.8917	
- 40	5A	15.3719	22.9903	22.8295	
- 41	1A	11.7379	17.2868	17.2004	

OVEN TEMP: 105°C

TIME IN: 11:45am

TIME OUT: 9:30 AM

ON: 7/29/03

Continued on Page

Read and Understood By

R. Manning

Signed

7/28/03
211

Date

K. Dutch

Signed

7/29/03

Date

Percent Moisture Summary Report

Batch: 83215
 Date: 07/29/03
 Method: CLP SOW 390
 Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166535-042	15.4952	21.1447	21.0594	98	2
166535-043	15.1502	21.7030	21.6076	99	1
166535-044	15.3259	23.3812	22.2700	86	14
166535-045	10.9877	17.1106	16.9812	98	2
166535-046	15.4174	21.1134	20.0003	80	20
166535-047	15.4402	22.0456	21.8984	98	2
166535-048	11.0518	18.0485	17.9532	99	1
166535-049	15.1401	22.0459	21.9126	98	2
166535-050	15.0722	22.2220	22.0951	98	2
166535-051	11.1832	19.4165	19.2451	98	2
166535-052	15.8182	22.1679	22.0493	98	2
166535-053	15.9935	23.0335	22.9545	99	1
166535-054	15.9664	22.3247	22.2290	98	2
166535-055	10.9742	16.9817	16.9418	99	1
166535-056	15.4226	21.8789	21.6644	97	3
166535-057	15.5135	21.7037	21.6577	99	1
166535-058	15.1926	23.8612	23.6605	98	2
166535-059	15.4357	21.8707	21.8142	99	1
166535-060	15.7849	22.7534	22.6599	99	1
QC220448	15.3123	21.0424	20.9509	98	2
of 166535-042			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83215
 Date Started: 28-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166535-042		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-043		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-044		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-045		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-046		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-047		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-048		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-049		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-050		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-051		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-052		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-053		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-054		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-055		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-056		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-057		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-058		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-059		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
166535-060		Treadwell & Rollo	Soil	MOISTURE	30-JUL-2003
QC220448	SDUP	of 166535-042	Soil	MOISTURE	

PROJECT MOISTURE

7/28/03

83215

montg

Sample	Dig #	Tree #	Ini. wt.	Fin. wt.	Cr
BWNP	60X	15.8207	-	15.8236	
166535 - 42	141	15.4952	21.1447	21.0594	
- 42 DUP	17	15.3123	21.0424	20.9509	
- 43	SES	15.1502	21.7030	21.6076	
- 44	17C	15.3259	23.3812	22.2700	
- 45	10G	10.9877	17.1106	16.9812	
- 46	31	15.4174	21.1134	21.6647 ^{20.003} 21.6647 KD	
- 47	32	15.4402	22.0456	21.8984	
- 48	ABC	11.0518	18.0485	17.9532	
- 49	2C	15.1401	22.0459	21.9126	
- 50	12C	15.0722	22.2220	22.0951	
- 51	V	11.1832	19.4165	19.2451	
- 52	LOW	15.8182	22.11079	22.0493	
- 53	16D	15.9935	23.0325	22.9545	
- 54	5D	15.9664	22.3247	22.2290	
- 55	ZAX	10.9742	16.9817	16.9418	
- 56	46	15.4226	21.8789	21.6241	
- 57	44	15.5135	21.7037	21.6577	
- 58	71	15.1926	23.8612	23.6005	
- 59	3E	15.4357	21.8707	21.8142	
- 60	41	15.7849	22.7534	22.6599	

OVEN TEMP: 105°C
TIME IN: 12:45
TIME OUT: 10:00AM

ON: 7/29/03

Contin

1 D 1 /

7/28/03

mw

7



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166560

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Range

<u>Sample ID</u>	<u>Lab ID</u>
BAPSB15 [0.3]	166560-001
BAPSB15 [1]	166560-002
BAPSB11 [1]	166560-003
BAPSB11 [2]	166560-004
BAPSB09 [0.3]	166560-005
BAPSB09 [1]	166560-006
BAPSB05 [0.3]	166560-007
BAPSB05 [1]	166560-008
BAPSB05 [3]	166560-009
BAPSB05 [3.5]	166560-010
BAPSB06 [1]	166560-011
BAPSB06 [3]	166560-012
BAPSB06 [5.5]	166560-013
BAPSB01 [1]	166560-014
BAPSB01 [3.5]	166560-015
BAPSB01 [4.5] [MSD]	166560-016
BAPSB01 [5.5]	166560-017
BAPSB02 [1]	166560-018
DUP072503B	166560-019
BAPSB02 [3]	166560-020
BAPSB02 [5.5]	166560-021
BAPSB02 [1]RB [3]	166560-022

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/8/03

Signature: _____

Project Manager

Date: _____

8/7/03

Laboratory Number: **166560**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/25/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and twenty-one soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries for antimony and the soil matrix spike recovery for zinc were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The %D of the continuing calibration standard (CCS) tr212111 was below acceptance limits for antimony. The standard did not bracket any reported results.

The serial dilution sample analyzed on 7/30/03 at 08:20 was outside acceptance limits for lead. No other analytical problems were encountered.

Chain of Custody

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio firing Range

Job Number: 2893.07

Project Manager/Contact: Dorinda Shiman

Samplers: Anthony D. Rhoads Richards

Recorder (Signature Required):

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative									
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other		
BAPSRI5C03	7-25-03	1102		X									
BAPSRI5C10	7-25-03	1106		X									
BAPSRI11 [1]	7/25/03	1129		X									
BAPSRI11 [2]	7/25/03	1130		X									
BAPSRI09 [0.3]	7/25/03	1116		X									
BAPSRI09 [1]	7/25/03	1118		X									
BAPSRI05 [0.3]	7/25/03	1221		X									
BAPSRI05 [1]	7/25/03	1222		X									
BAPSRI05 [3]	7/25/03	1223		X									
BAPSRI05 [3.5]	7/25/03	1224		X									
BAPSRI06 [1]	7/25/03	1252		X									
BAPSRI06 [3]	7/25/03	1254		X									
BAPSRI06 [5.5]	7/25/03	1256		X									
BAPSRI05 [1]	7/25/03	1301		X									
Relinquished by: (Signature)	<i>Richard L</i>		Date	7/25/03								Time	1530
Relinquished by: (Signature)			Date									Time	
Relinquished by: (Signature)			Date									Time	
Sent to Laboratory (Name):	<i>Curtis & Tomkins</i>												
Laboratory Comments/Notes:													

[illegible]

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 002859

Treadwell&Rollo

Environmental and Geotechnical Consultants
555 Montgomery Street, Suite 1300
San Francisco, California 94111
Phone: 415/955-9040
Fax: 415/955-9041

FAX TRANSMITTALDate: 7/28/03 Send to fax # 510 486-0532To: Pat Flynn / Curtis & TompkinFrom: Mike ChamberlainProject name: Presidio Small Arms Ranges Project number: 2893.07Number of pages, including this cover: 2Notes: Let- Please put the three
samples noted on holdmaxThis document will also be mailed to you: ☐ Yes ☐ No*Should you encounter any difficulties with this fax, please call 415/955-9040*

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Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

Login#: 166560 Date Received: 7-25-03 Number of Coolers: 1
Client: Treadwell & Rolfe Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-25-03 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO N/A

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: wet Temperature: 4.5

B. Login Phase

Date Logged In: 7-25-03 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: in ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB02 [1]RB [3]	Batch#:	83290
Matrix:	Water	Sampled:	07/25/03
Units:	ug/L	Received:	07/25/03
Diln Fac:	1.000	Prepared:	07/30/03

Type: SAMPLE Lab ID: 166560-022

Analyte	Result	RL	Analyzed
Antimony	ND	60	08/01/03
Barium	ND	10	07/31/03
Copper	ND	10	07/31/03
Lead	ND	3.0	07/31/03
Zinc	ND	20	07/31/03

Type: BLANK Analyzed: 07/31/03
 Lab ID: QC220724

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83290
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220725

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	500.0	569.0	114	80-120	08/01/03
Barium	2,000	2,050	103	80-120	07/31/03
Copper	250.0	255.0	102	80-120	07/31/03
Lead	100.0	101.0	101	80-120	07/31/03
Zinc	500.0	499.0	100	80-120	07/31/03

Type: BSD Lab ID: QC220726

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	500.0	566.0	113	80-120	1	20	08/01/03
Barium	2,000	2,060	103	80-120	0	20	07/31/03
Copper	250.0	255.0	102	80-120	0	20	07/31/03
Lead	100.0	102.0	102	80-120	1	20	07/31/03
Zinc	500.0	501.0	100	80-120	0	20	07/31/03

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83290
MSS Lab ID:	166554-002	Sampled:	07/25/03
Matrix:	Water	Received:	07/25/03
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000	Analyzed:	07/31/03

Type: MS Lab ID: QC220727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	690.0	138 *	75-125
Barium	350.0	2,000	2,360	101	75-125
Copper	3.780	250.0	297.0	117	75-125
Lead	<1.300	100.0	94.10	94	75-125
Zinc	341.0	500.0	883.0	108	75-125

Type: MSD Lab ID: QC220728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	704.0	141 *	75-125	2	20
Barium	2,000	2,370	101	75-125	0	20
Copper	250.0	301.0	119	75-125	1	20
Lead	100.0	97.80	98	75-125	4	20
Zinc	500.0	881.0	108	75-125	0	20

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699125
Filename : tr212087
IDF : 1.0
PDF : 1.0
Run type : MSS
Samplenum: 166554-002
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:25
Units : ug/L

Instid : MET07
Seqnum : 73305699126
Filename : tr212088
IDF : 5.0
PDF : 1.0
Run type : SER
Samplenum: QC220729
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:29

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	457	100	977	500	--	10		u
Antimony	ND	60.0	ND	300	--	10		u
Arsenic	28.8	5.00	ND	25.0	--	10		u
Barium	350	10.0	336	50.0	4	10		u
Beryllium	ND	2.00	ND	10.0	--	10		u
Cadmium	ND	5.00	ND	25.0	--	10		u
Calcium	*** usable MSS data not found ***							
Chromium	11.0	10.0	ND	50.0	--	10		u
Cobalt	ND	20.0	ND	100	--	10		u
Copper	ND	10.0	ND	50.0	--	10		u
Iron	10500	100	10400	500	1	10		u
Lead	ND	3.00	ND	15.0	--	10		u
Magnesium	*** usable MSS data not found ***							
Manganese	10100	10.0	9950	50.0	1	10		u
Molybdenum	ND	20.0	ND	100	--	10		u
Nickel	ND	20.0	ND	100	--	10		u
Selenium	ND	5.00	ND	25.0	--	10		u
Silver	ND	5.00	ND	25.0	--	10		u
Thallium	8.07	5.00	ND	25.0	--	10		u
Vanadium	36.3	10.0	ND	50.0	--	10		u
Zinc	341	20.0	338	100	1	10		u
Titanium	36.8	10.0	56.0	50.0	--	10		u

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699137
Filename : tr212100
IDF : 1.0
PDF : 1.0
Run type : PDS
Samplenum: QC220938
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 18:52
Units : ug/L

MSS : 166554-002

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73305699125	457.0	2000	2573 106	28-139	u
Antimony	73305699125	ND	500	656.0 131	38-136	u
Arsenic	73305699125	28.80	100	144.0 115	60-138	u
Barium	73305699125	350.0	2000	2330 99	44-138	u
Beryllium	73305699125	0.1880	50	53.00 106	62-126	u
Cadmium	73305699125	1.600	50	51.60 100	54-129	u
Calcium	73305699136	42100	20000	689000 >LR	-765 36-135	:>u
Chromium	73305699125	11.00	200	212.0 101	55-129	u
Cobalt	73305699125	1.390	500	513.0 102	54-127	u
Copper	73305699125	3.780	250	299.0 118	57-128	u
Iron	73305699125	10490	1000	12270 178	29-132	:u
Lead	73305699125	ND	100	105.0 105	33-145	u
Magnesium	*** usable MSS data not found ***					
Manganese	73305699125	10100	50	10500 800	32-146	:u
Molybdenum	73305699125	7.530	400	454.0 112	52-130	u
Nickel	73305699125	15.30	500	528.0 103	50-132	u
Selenium	73305699125	ND	100	121.0 121	49-140	u
Silver	73305699125	ND	50	58.30 117	36-137	u
Thallium	73305699125	8.070	100	122.0 114	31-141	u
Vanadium	73305699125	36.30	500	561.0 105	53-135	u
Zinc	73305699125	341.0	500	900.0 112	39-142	u
Titanium	73305699125	36.80	1000	1080 104	58-122	u

:recovery not meaningful >=>LR u=use
Page 1 of 1

Method: 6010B Standard: blank
Run Time: 07/31/03 06:45:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.000	-.087	.000	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	84.7	10.7	77.2	218.	.242	82.1	23.9
#1	-.000	.001	-.000	.000	-.087	.000	.000
#2	-.001	.001	-.000	-.000	-.087	.000	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	.000	-.001
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	46.9	3.20	71.5	44.9	38.8	97.8	36.3
#1	-.000	-.003	.001	.000	.000	.000	-.001
#2	-.000	-.002	.000	.000	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.004	.0262	-.0066
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	20.7	236.	.283	11.7	.627	.3532	.5123
#1	.001	-.000	-.000	.000	.004	.0262	-.0066
#2	.001	.000	-.000	.000	.004	.0263	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0005	.0001	.000	.054			
SDev	.0001	.0000	.000	.000			
%RSD	26.66	10.60	29.0	.283			
#1	-.0004	.0001	.000	.054			
#2	-.0005	.0001	.000	.054			

Method: 6010B Standard: cst hi

Run Time: 07/31/03 06:52:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.140	.087	.034	5.04	.586	.197	.046
SDev	.004	.003	.001	.01	.001	.000	.000
%RSD	3.01	3.31	1.71	.128	.105	.172	.076
#1	.137	.085	.034	5.04	.585	.198	.046
#2	.143	.089	.035	5.03	.586	.197	.046
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.127	.120	.138	.140	.243	.323	.037
SDev	.000	.000	.001	.000	.002	.000	.000
%RSD	.292	.099	.506	.303	.677	.118	.615
#1	.127	.120	.139	.140	.242	.323	.037
#2	.127	.120	.138	.140	.244	.323	.038
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.045	.074	.024	.190	.029	.0529	.0582
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	2.40	.208	.037	.124	.033	.1275	.0046
#1	.046	.074	.024	.190	.029	.0529	.0582
#2	.044	.074	.024	.190	.029	.0528	.0582
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0238	.0357	.204	1.82			
SDev	.0002	.0001	.000	.00			
%RSD	.6685	.2492	.050	.023			
#1	.0237	.0357	.204	1.82			
#2	.0239	.0358	.205	1.82			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	7049.65	5.10082	07/31/03 06:52:30
Sb206A	206.832	Multiple	Standards	11321.5	-9.05347	07/31/03 06:52:30
As1890	189.042	Multiple	Standards	14402.8	4.09173	07/31/03 06:52:30
Ba4934	493.409	Multiple	Standards	198.578	-.023516	07/31/03 06:52:30
Be3130	313.042	Multiple	Standards	143.606	12.4607	07/31/03 06:52:30
Cd2265	226.502	Multiple	Standards	506.590	-.155130	07/31/03 06:52:30
Cr2677	267.716	Multiple	Standards	4332.65	-.952905	07/31/03 06:52:30
Co2286	228.616	Multiple	Standards	3935.67	.696472	07/31/03 06:52:30
Cu3247	324.754	Multiple	Standards	1632.94	4.07111	07/31/03 06:52:30
Pb2203	220.351	Multiple	Standards	3635.38	-2.28473	07/31/03 06:52:30
Pb220A	220.352	Multiple	Standards	3547.94	-.894247	07/31/03 06:52:30
Mo2020	202.030	Multiple	Standards	4120.70	-1.21684	07/31/03 06:52:30
Ni2316	231.604	Multiple	Standards	1545.98	-.323092	07/31/03 06:52:30
Se1960	196.021	Multiple	Standards	12951.6	16.6714	07/31/03 06:52:30
Se196A	196.022	Multiple	Standards	11423.2	-13.2365	07/31/03 06:52:30
Ag3280	328.068	Multiple	Standards	1352.67	-.086813	07/31/03 06:52:30
Tl1908	190.864	Multiple	Standards	20447.6	4.38897	07/31/03 06:52:30
V_2924	292.402	Multiple	Standards	2634.98	-.523252	07/31/03 06:52:30
Zn2138	213.856	Multiple	Standards	4236.82	-18.6885	07/31/03 06:52:30
Al3082	308.215	Multiple	Standards	38014.8	-997.512	07/31/03 06:52:30
Ca3179	317.933	Multiple	Standards	30841.1	204.224	07/31/03 06:52:30
Fe2714	271.441	Multiple	Standards	43039.6	19.3929	07/31/03 06:52:30
Mg2790	279.079	Multiple	Standards	56067.1	-3.91061	07/31/03 06:52:30
Mn2576	257.610	Multiple	Standards	489.790	-.152377	07/31/03 06:52:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Ti3349	334.941	Multiple	Standards	567.556	-30.6263	07/31/03 06:52:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699001

Run Name :
Filename : tr211962

Injected : 31-JUL-2003 06:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.4000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	507.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1006.000	ug/L	1	5	
Lead	500.0000	505.0000	ug/L	1	5	
Magnesium	2000.000	2021.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	505.0000	ug/L	1	5	
Selenium	500.0000	505.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699002

Run Name :
Filename : tr211963

Injected : 31-JUL-2003 07:16
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	464.9000	ug/L	-7	10	
Antimony	500.0000	535.0000	ug/L	7	10	
Arsenic	250.0000	245.0000	ug/L	-2	10	
Barium	500.0000	486.0000	ug/L	-3	10	
Beryllium	50.00000	50.00000	ug/L	0	10	
Cadmium	50.00000	47.70000	ug/L	-5	10	
Calcium	1000.000	1027.000	ug/L	3	10	
Chromium	100.0000	98.90000	ug/L	-1	10	
Cobalt	250.0000	245.0000	ug/L	-2	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	479.0000	ug/L	-4	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	995.1000	ug/L	0	10	
Manganese	50.00000	49.10000	ug/L	-2	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	248.0000	ug/L	-1	10	
Selenium	250.0000	243.0000	ug/L	-3	10	
Silver	50.00000	50.50000	ug/L	1	10	
Thallium	250.0000	228.0000	ug/L	-9	10	
Titanium	500.0000	504.0000	ug/L	1	10	
Vanadium	250.0000	246.0000	ug/L	-2	10	
Zinc	50.00000	48.00000	ug/L	-4	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD

Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699004

```
Run Name :  
Filename : tr211965
```

Injected : 31-JUL-2003 07:35
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	100.4000	ug/L	0	50	
Antimony	60.00000	70.80000	ug/L	18	50	
Arsenic	5.000000	4.080000	ug/L	-18	50	
Barium	10.00000	9.650000	ug/L	-4	50	
Beryllium	2.000000	1.570000	ug/L	-22	50	
Cadmium	5.000000	4.390000	ug/L	-12	50	
Chromium	10.00000	8.720000	ug/L	-13	50	
Cobalt	20.00000	19.10000	ug/L	-5	50	
Copper	10.00000	10.80000	ug/L	8	50	
Iron	100.0000	77.99000	ug/L	-22	50	
Lead	3.000000	2.920000	ug/L	-3	50	
Manganese	10.00000	9.810000	ug/L	-2	50	
Molybdenum	20.00000	16.90000	ug/L	-16	50	
Nickel	20.00000	18.80000	ug/L	-6	50	
Selenium	5.000000	7.220000	ug/L	44	50	
Silver	5.000000	4.080000	ug/L	-18	50	
Thallium	5.000000	6.350000	ug/L	27	50	
Vanadium	10.00000	10.00000	ug/L	0	50	
Zinc	20.00000	20.30000	ug/L	2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699014

Run Name :
Filename : tr211976

Injected : 31-JUL-2003 08:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	482.5000	ug/L	-4	10	
Antimony		500.0000	489.0000	ug/L	-2	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	502.0000	ug/L	0	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	50.70000	ug/L	1	10	
Calcium		1000.000	1053.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	106.0000	ug/L	6	10	
Iron		500.0000	501.6000	ug/L	0	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	51.10000	ug/L	2	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	51.70000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699026

Run Name :
Filename : tr211988

Injected : 31-JUL-2003 09:35
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.4000	ug/L	1	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	745.0000	ug/L	-1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1552.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	793.6000	ug/L	6	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1547.000	ug/L	3	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699038

Run Name :
Filename : tr212000

Injected : 31-JUL-2003 10:38
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	259.6000	ug/L	4	10	
Antimony		250.0000	275.0000	ug/L	10	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	252.0000	ug/L	1	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.00000	ug/L	0	10	
Calcium		500.0000	517.0000	ug/L	3	10	
Chromium		50.00000	51.30000	ug/L	3	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	54.90000	ug/L	10	10	
Iron		250.0000	273.7000	ug/L	9	10	
Lead		125.0000	130.0000	ug/L	4	10	
Magnesium		500.0000	519.5000	ug/L	4	10	
Manganese		25.00000	25.80000	ug/L	3	10	
Molybdenum		250.0000	254.0000	ug/L	2	10	
Nickel		125.0000	128.0000	ug/L	2	10	
Selenium		125.0000	130.0000	ug/L	4	10	
Silver		25.00000	25.40000	ug/L	2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	266.0000	ug/L	6	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.40000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699050

Run Name :
Filename : tr212012

Injected : 31-JUL-2003 11:45
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	506.4000	ug/L	1	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	499.0000	ug/L	0	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	49.60000	ug/L	-1	10	
Calcium		1000.000	960.6000	ug/L	-4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	475.4000	ug/L	-5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1011.000	ug/L	1	10	
Manganese		50.00000	48.90000	ug/L	-2	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	510.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.00000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699062

Run Name :
Filename : tr212024

Injected : 31-JUL-2003 12:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.5000	ug/L	1	10	
Antimony		750.0000	774.0000	ug/L	3	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	77.60000	ug/L	3	10	
Cadmium		75.00000	75.60000	ug/L	1	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	731.4000	ug/L	-2	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1577.000	ug/L	5	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	739.0000	ug/L	-1	10	
Nickel		375.0000	383.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	72.90000	ug/L	-3	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	757.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	77.10000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699074

Run Name :
Filename : tr212036

Injected : 31-JUL-2003 13:42
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	506.8000	ug/L	1	10	
Antimony		500.0000	504.0000	ug/L	1	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	926.8000	ug/L	-7	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	457.3000	ug/L	-9	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	985.0000	ug/L	-2	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699084

Run Name :
Filename : tr212046

Injected : 31-JUL-2003 14:29
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	795.5000	ug/L	6	10	
Antimony		750.0000	790.0000	ug/L	5	10	
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	74.20000	ug/L	-1	10	
Calcium		1500.000	1464.000	ug/L	-2	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	729.5000	ug/L	-3	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	71.40000	ug/L	-5	10	
Molybdenum		750.0000	729.0000	ug/L	-3	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	374.0000	ug/L	0	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	355.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.30000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699096

Run Name :
Filename : tr212058

Injected : 31-JUL-2003 15:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	537.7000	ug/L	8	10	
Antimony		500.0000	467.0000	ug/L	-7	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	911.5000	ug/L	-9	10	
Chromium		100.0000	98.70000	ug/L	-1	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	524.0000	ug/L	5	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	993.8000	ug/L	-1	10	
Manganese		50.00000	47.90000	ug/L	-4	10	
Molybdenum		500.0000	481.0000	ug/L	-4	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	48.40000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	51.90000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699108

Run Name :
Filename : tr212070

Injected : 31-JUL-2003 16:08
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	510.2000	ug/L	2		10	
Antimony		500.0000	476.0000	ug/L	-5		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	494.0000	ug/L	-1		10	
Beryllium		50.00000	51.10000	ug/L	2		10	
Cadmium		50.00000	49.20000	ug/L	-2		10	
Calcium		1000.000	1000.000	ug/L	0		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	546.6000	ug/L	9		10	
Lead		250.0000	236.0000	ug/L	-6		10	
Magnesium		1000.000	1028.000	ug/L	3		10	
Manganese		50.00000	50.70000	ug/L	1		10	
Molybdenum		500.0000	477.0000	ug/L	-5		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	239.0000	ug/L	-4		10	
Silver		50.00000	49.10000	ug/L	-2		10	
Thallium		250.0000	243.0000	ug/L	-3		10	
Titanium		500.0000	515.0000	ug/L	3		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.10000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699120

Run Name :
Filename : tr212082

Injected : 31-JUL-2003 17:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	773.1000	ug/L	3		10	
Antimony		750.0000	826.0000	ug/L	10		10	
Arsenic		375.0000	377.0000	ug/L	1		10	
Barium		750.0000	743.0000	ug/L	-1		10	
Beryllium		75.00000	76.70000	ug/L	2		10	
Cadmium		75.00000	73.90000	ug/L	-1		10	
Calcium		1500.000	1456.000	ug/L	-3		10	
Chromium		150.0000	150.0000	ug/L	0		10	
Cobalt		375.0000	369.0000	ug/L	-2		10	
Copper		150.0000	150.0000	ug/L	0		10	
Iron		750.0000	795.2000	ug/L	6		10	
Lead		375.0000	367.0000	ug/L	-2		10	
Magnesium		1500.000	1513.000	ug/L	1		10	
Manganese		75.00000	73.40000	ug/L	-2		10	
Molybdenum		750.0000	740.0000	ug/L	-1		10	
Nickel		375.0000	379.0000	ug/L	1		10	
Selenium		375.0000	372.0000	ug/L	-1		10	
Silver		75.00000	71.80000	ug/L	-4		10	
Thallium		375.0000	370.0000	ug/L	-1		10	
Titanium		750.0000	756.0000	ug/L	1		10	
Vanadium		375.0000	368.0000	ug/L	-2		10	
Zinc		75.00000	75.60000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699132

Run Name :
Filename : tr212095

Injected : 31-JUL-2003 18:06
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	764.1000	ug/L	2	10	
Antimony		750.0000	768.0000	ug/L	2	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1508.000	ug/L	1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	748.4000	ug/L	0	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1576.000	ug/L	5	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	709.0000	ug/L	-5	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	365.0000	ug/L	-3	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699139

Run Name :
Filename : tr212103

Injected : 31-JUL-2003 19:08
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	777.1000	ug/L	4		10	
Antimony		750.0000	813.0000	ug/L	8		10	
Arsenic		375.0000	373.0000	ug/L	-1		10	
Barium		750.0000	725.0000	ug/L	-3		10	
Beryllium		75.00000	74.70000	ug/L	0		10	
Cadmium		75.00000	72.50000	ug/L	-3		10	
Calcium		1500.000	1430.000	ug/L	-5		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	363.0000	ug/L	-3		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	717.1000	ug/L	-4		10	
Lead		375.0000	347.0000	ug/L	-7		10	
Magnesium		1500.000	1492.000	ug/L	-1		10	
Manganese		75.00000	72.40000	ug/L	-3		10	
Molybdenum		750.0000	719.0000	ug/L	-4		10	
Nickel		375.0000	367.0000	ug/L	-2		10	
Selenium		375.0000	371.0000	ug/L	-1		10	
Silver		75.00000	72.70000	ug/L	-3		10	
Thallium		375.0000	343.0000	ug/L	-9		10	
Titanium		750.0000	736.0000	ug/L	-2		10	
Vanadium		375.0000	364.0000	ug/L	-3		10	
Zinc		75.00000	74.30000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699147

Run Name :
Filename : tr212111

Injected : 31-JUL-2003 19:51
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	530.8000	ug/L	6	10		
Antimony		500.0000	422.0000	ug/L	-16	10	1	***
Arsenic		250.0000	243.0000	ug/L	-3	10		
Barium		500.0000	487.0000	ug/L	-3	10		
Beryllium		50.00000	48.40000	ug/L	-3	10		
Cadmium		50.00000	46.80000	ug/L	-6	10		
Calcium		1000.000	947.5000	ug/L	-5	10		
Chromium		100.0000	105.0000	ug/L	5	10		
Cobalt		250.0000	237.0000	ug/L	-5	10		
Copper		100.0000	99.50000	ug/L	-1	10		
Iron		500.0000	631.2000	ug/L	26	10	1	***
Lead		250.0000	227.0000	ug/L	-9	10		
Magnesium		1000.000	951.7000	ug/L	-5	10		
Manganese		50.00000	48.80000	ug/L	-2	10		
Molybdenum		500.0000	459.0000	ug/L	-8	10		
Nickel		250.0000	242.0000	ug/L	-3	10		
Selenium		250.0000	234.0000	ug/L	-6	10		
Silver		50.00000	47.90000	ug/L	-4	10		
Thallium		250.0000	219.0000	ug/L	-12	10	1	***
Titanium		500.0000	489.0000	ug/L	-2	10		
Vanadium		250.0000	239.0000	ug/L	-4	10		
Zinc		50.00000	47.00000	ug/L	-6	10		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699159

Run Name :
Filename : tr212123

Injected : 31-JUL-2003 20:52
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	847.8000	ug/L	13	10	1 ***
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	72.80000	ug/L	-3	10	
Cadmium		75.00000	72.00000	ug/L	-4	10	
Calcium		1500.000	1392.000	ug/L	-7	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	821.6000	ug/L	10	10	
Lead		375.0000	346.0000	ug/L	-8	10	
Magnesium		1500.000	1461.000	ug/L	-3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	702.0000	ug/L	-6	10	
Nickel		375.0000	362.0000	ug/L	-3	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	73.40000	ug/L	-2	10	
Thallium		375.0000	336.0000	ug/L	-10	10	
Titanium		750.0000	728.0000	ug/L	-3	10	
Vanadium		375.0000	357.0000	ug/L	-5	10	
Zinc		75.00000	70.90000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699170

Run Name :
Filename : tr212134

Injected : 31-JUL-2003 21:47
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	557.3000	ug/L	11	10	1	***
Antimony		500.0000	428.0000	ug/L	-14	10	1	***
Arsenic		250.0000	247.0000	ug/L	-1	10		
Barium		500.0000	489.0000	ug/L	-2	10		
Beryllium		50.00000	48.70000	ug/L	-3	10		
Cadmium		50.00000	47.90000	ug/L	-4	10		
Calcium		1000.000	878.8000	ug/L	-12	10	1	***
Chromium		100.0000	104.0000	ug/L	4	10		
Cobalt		250.0000	239.0000	ug/L	-4	10		
Copper		100.0000	98.80000	ug/L	-1	10		
Iron		500.0000	560.5000	ug/L	12	10	1	***
Lead		250.0000	232.0000	ug/L	-7	10		
Magnesium		1000.000	937.8000	ug/L	-6	10		
Manganese		50.00000	47.70000	ug/L	-5	10		
Molybdenum		500.0000	460.0000	ug/L	-8	10		
Nickel		250.0000	241.0000	ug/L	-4	10		
Selenium		250.0000	238.0000	ug/L	-5	10		
Silver		50.00000	49.50000	ug/L	-1	10		
Thallium		250.0000	227.0000	ug/L	-9	10		
Titanium		500.0000	488.0000	ug/L	-2	10		
Vanadium		250.0000	239.0000	ug/L	-4	10		
Zinc		50.00000	57.50000	ug/L	15	10	1	***

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699182

Run Name :
Filename : tr212146

Injected : 31-JUL-2003 22:47
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	841.8000	ug/L	12	10	1 ***
Antimony		750.0000	735.0000	ug/L	-2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	73.70000	ug/L	-2	10	
Cadmium		75.00000	72.70000	ug/L	-3	10	
Calcium		1500.000	1384.000	ug/L	-8	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	810.0000	ug/L	8	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1454.000	ug/L	-3	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	683.0000	ug/L	-9	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	737.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699195

Run Name :
Filename : tr212159

Injected : 31-JUL-2003 23:55
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	657.2000	ug/L	31	10	1 ***
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	944.4000	ug/L	-6	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	614.8000	ug/L	23	10	1 ***
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1031.000	ug/L	3	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.00000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699003
Filename: tr211964

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 31-JUL-2003 07:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[6.6100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1390]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	[29.600]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4150]	10.00000	ug/L	<RL	
Copper	[1.0600]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.2460]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	[0.0200]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.0480]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699015
Filename: tr211977

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 08:43

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[19.200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0330]	5.000000	ug/L	<RL	
Calcium	[78.970]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.9200]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.7400]	3.000000	ug/L	<RL	
Magnesium	[0.1579]	500.0000	ug/L	<RL	
Manganese	[0.0900]	10.00000	ug/L	<RL	
Molybdenum	[4.5700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[4.1200]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.4650]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699027
Filename: tr211989

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 09:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.1360]	5.000000	ug/L	<RL	
Barium	[0.0950]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1650]	5.000000	ug/L	<RL	
Calcium	[75.650]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2480]	10.00000	ug/L	<RL	
Copper	[2.9800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.8800]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[0.3940]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699039
Filename: tr212001

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 10:55

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[14.700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1330]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.1680]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.6420]		10.00000	ug/L	<	RL
Copper	[2.6400]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.4900]		20.00000	ug/L	<	RL
Nickel	[0.0340]		20.00000	ug/L	<	RL
Selenium	[2.0000]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.9900]		10.00000	ug/L	<	RL
Vanadium	[0.0250]		10.00000	ug/L	<	RL
Zinc	[1.5900]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699051
Filename: tr212013

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 11:52

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[19.570]	100.0000	ug/L	<RL	
Antimony	[3.7000]	60.00000	ug/L	<RL	
Arsenic	[2.5100]	5.000000	ug/L	<RL	
Barium	[0.0900]	10.00000	ug/L	<RL	
Beryllium	[0.7220]	2.000000	ug/L	<RL	
Cadmium	[0.2190]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4420]	10.00000	ug/L	<RL	
Copper	[1.4800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0110]	10.00000	ug/L	<RL	
Molybdenum	[2.3800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.3100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.9630]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699063
Filename: tr212025

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 12:43

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[43.430]	100.0000	ug/L	<RL	
Antimony	[4.9800]	60.00000	ug/L	<RL	
Arsenic	[2.0200]	5.000000	ug/L	<RL	
Barium	[0.1570]	10.00000	ug/L	<RL	
Beryllium	[1.5000]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2540]	10.00000	ug/L	<RL	
Copper	[0.9300]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.7300]	3.000000	ug/L	<RL	
Magnesium	[15.600]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[5.4100]	20.00000	ug/L	<RL	
Nickel	[0.1520]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1540]	5.000000	ug/L	<RL	
Thallium	[4.1100]	5.000000	ug/L	<RL	
Titanium	[3.6600]	10.00000	ug/L	<RL	
Vanadium	[0.0370]	10.00000	ug/L	<RL	
Zinc	[1.8100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699075
Filename: tr212037

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 13:47

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[24.400]	60.00000	ug/L	<RL	
Arsenic	[0.3090]	5.000000	ug/L	<RL	
Barium	[0.1530]	10.00000	ug/L	<RL	
Beryllium	[0.0200]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.5926]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3570]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[2.9780]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[6.4100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.8400]	10.00000	ug/L	<RL	
Vanddium	ND	10.00000	ug/L	<RL	
Zinc	[1.2000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699085
Filename: tr212047

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 14:34

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[44.790]	100.0000	ug/L	<RL	
Antimony	[9.8400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1410]	10.00000	ug/L	<RL	
Beryllium	[0.9540]	2.000000	ug/L	<RL	
Cadmium	[0.4350]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.5570]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.400]	100.0000	ug/L	<RL	
Lead	[0.3050]	3.000000	ug/L	<RL	
Magnesium	[15.400]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.1300]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8700]	5.000000	ug/L	<RL	
Titanium	[4.3700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.7500]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699097
Filename: tr212059

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 15:24

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[71.800]	100.0000	ug/L	<RL	
Antimony	[11.400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2800]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.4050]	5.000000	ug/L	<RL	
Calcium	[5.9240]	500.0000	ug/L	<RL	
Chromium	[0.3530]	10.00000	ug/L	<RL	
Cobalt	[0.6800]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[26.160]	100.0000	ug/L	<RL	
Lead	[2.7700]	3.000000	ug/L	<RL	
Magnesium	[9.3990]	500.0000	ug/L	<RL	
Manganese	[0.4530]	10.00000	ug/L	<RL	
Molybdenum	[7.7700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1980]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.2900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.2800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699109
Filename: tr212071

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 16:18

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[5.9670]	100.0000	ug/L	<RL	
Antimony	[49.100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2430]	10.00000	ug/L	<RL	
Beryllium	[0.0300]	2.000000	ug/L	<RL	
Cadmium	[0.1220]	5.000000	ug/L	<RL	
Calcium	[1.3260]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[1.0600]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.1430]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.4370]	500.0000	ug/L	<RL	
Manganese	[0.2190]	10.00000	ug/L	<RL	
Molybdenum	[2.9100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.4300]	5.000000	ug/L	<RL	
Silver	[0.5470]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.6090]	10.00000	ug/L	<RL	
Vanadium	[0.1360]	10.00000	ug/L	<RL	
Zinc	[2.5200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699121
Filename: tr212083

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 17:07

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[29.590]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.4750]	5.000000	ug/L	<RL		
Barium	[0.2730]	10.00000	ug/L	<RL		
Beryllium	[0.9160]	2.000000	ug/L	<RL		
Cadmium	[0.1030]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2520]	10.00000	ug/L	<RL		
Cobalt	[0.1530]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[17.730]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[8.4290]	500.0000	ug/L	<RL		
Manganese	[0.3260]	10.00000	ug/L	<RL		
Molybdenum	[4.2500]	20.00000	ug/L	<RL		
Nickel	[0.1990]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.5260]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.8200]	10.00000	ug/L	<RL		
Vanadium	[0.1360]	10.00000	ug/L	<RL		
Zinc	[2.7100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73305699133
Filename: tr212096

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 18:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[13.700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1430]		10.00000	ug/L	<	RL
Beryllium	[0.1250]		2.000000	ug/L	<	RL
Cadmium	[0.3880]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.2760]		10.00000	ug/L	<	RL
Cobalt	[0.9370]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[17.740]		500.0000	ug/L	<	RL
Manganese	[0.2150]		10.00000	ug/L	<	RL
Molybdenum	[0.6220]		20.00000	ug/L	<	RL
Nickel	[0.0350]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[1.3600]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[9.5900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[8.9100]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699140
Filename: tr212104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 19:15

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[77.770]	100.0000	ug/L	<RL	
Antimony	[44.800]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.9650]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[10.160]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[28.760]	500.0000	ug/L	<RL	
Manganese	[0.3540]	10.00000	ug/L	<RL	
Molybdenum	[3.5000]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.5600]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[6.2600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699149
Filename: tr212113

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 20:02

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[42.470]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.8180]	5.000000	ug/L	<RL	
Barium	[0.2070]	10.00000	ug/L	<RL	
Beryllium	[0.4450]	2.000000	ug/L	<RL	
Cadmium	[0.0060]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[7.6700]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	104.5000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5910]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.4930]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	6.230000	5.000000	ug/L	<RL	d ***
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

d=blank contam/missing

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699161
Filename: tr212125

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 21:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[62.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0710]	10.00000	ug/L	<RL	
Beryllium	[0.9420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[7.4700]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	116.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5050]	10.00000	ug/L	<RL	
Molybdenum	[1.2000]	20.00000	ug/L	<RL	
Nickel	[0.4170]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
 Segnum: 73305699172
 Filename: tr212136

TJA Trace ICP
 Run Name:
 Blank Type: CCB

Injected: 31-JUL-2003 22:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[67.230]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0170]	10.00000	ug/L	<RL	
Beryllium	[1.3200]	2.000000	ug/L	<RL	
Cadmium	[0.0440]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[8.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	128.8000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.6690]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699184
Filename: tr212148

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 23:02

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[72.760]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0230]	10.00000	ug/L	<RL	
Beryllium	[1.1800]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	101.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5910]	10.00000	ug/L	<RL	
Molybdenum	[0.6930]	20.00000	ug/L	<RL	
Nickel	[0.9090]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	34.60000	20.00000	ug/L	<RL	d ***

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699197
Filename: tr212161

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 00:07

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[85.600]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[1.1100]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[5.4200]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	247.8000	100.0000	ug/L	<RL	d	***
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[1.4700]	10.00000	ug/L	<RL		
Molybdenum	[0.8780]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699005

Run Name :
Filename : tr211966

Injected : 31-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	498200.0	ug/L	0		
Antimony	500.0000	511.0000	ug/L	2	20	
Arsenic	500.0000	529.0000	ug/L	6	20	
Barium	500.0000	491.0000	ug/L	-2	20	
Beryllium	500.0000	512.0000	ug/L	2	20	
Cadmium	1000.000	944.0000	ug/L	-6	20	
Calcium	500000.0	484000.0	ug/L	-3		
Chromium	500.0000	481.0000	ug/L	-4	20	
Cobalt	500.0000	481.0000	ug/L	-4	20	
Copper	500.0000	530.0000	ug/L	6	20	
Iron	200000.0	187700.0	ug/L	-6		
Lead	1000.000	833.0000	ug/L	-17	20	
Magnesium	500000.0	523000.0	ug/L	5		
Manganese	500.0000	497.0000	ug/L	-1	20	
Molybdenum	500.0000	456.0000	ug/L	-9	20	
Nickel	1000.000	1030.000	ug/L	3	20	
Selenium	500.0000	492.0000	ug/L	-2	20	
Silver	1000.000	1050.000	ug/L	5	20	
Thallium	500.0000	456.0000	ug/L	-9	20	
Titanium	20000.00	2040.000	ug/L	-90		
Vanadium	500.0000	496.0000	ug/L	-1	20	
Zinc	1000.000	998.0000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699083

Run Name :
Filename : tr212045

Injected : 31-JUL-2003 14:23
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	509200.0	ug/L	2		
Antimony	500.0000	490.0000	ug/L	-2	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	517.0000	ug/L	3	20	
Beryllium	500.0000	506.0000	ug/L	1	20	
Cadmium	1000.000	1000.000	ug/L	0	20	
Calcium	500000.0	455700.0	ug/L	-9		
Chromium	500.0000	491.0000	ug/L	-2	20	
Cobalt	500.0000	490.0000	ug/L	-2	20	
Copper	500.0000	530.0000	ug/L	6	20	
Iron	200000.0	181500.0	ug/L	-9		
Lead	1000.000	878.0000	ug/L	-12	20	
Magnesium	500000.0	517600.0	ug/L	4		
Manganese	500.0000	487.0000	ug/L	-3	20	
Molybdenum	500.0000	481.0000	ug/L	-4	20	
Nickel	1000.000	1060.000	ug/L	6	20	
Selenium	500.0000	520.0000	ug/L	4	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	494.0000	ug/L	-1	20	
Titanium	20000.00	2080.000	ug/L	-90		
Vanadium	500.0000	499.0000	ug/L	0	20	
Zinc	1000.000	1040.000	ug/L	4	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699138

Run Name :
Filename : tr212101

Injected : 31-JUL-2003 18:56
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	494800.0	ug/L	-1			
Antimony	500.0000	496.0000	ug/L	-1		20	
Arsenic	500.0000	600.0000	ug/L	20		20	
Barium	500.0000	534.0000	ug/L	7		20	
Beryllium	500.0000	547.0000	ug/L	9		20	
Cadmium	1000.000	1110.000	ug/L	11		20	
Calcium	500000.0	521800.0	ug/L	4			
Chromium	500.0000	543.0000	ug/L	9		20	
Cobalt	500.0000	537.0000	ug/L	7		20	
Copper	500.0000	560.0000	ug/L	12		20	
Iron	200000.0	213000.0	ug/L	7			
Lead	1000.000	1000.000	ug/L	0		20	
Magnesium	500000.0	583000.0	ug/L	17			
Manganese	500.0000	551.0000	ug/L	10		20	
Molybdenum	500.0000	528.0000	ug/L	6		20	
Nickel	1000.000	1200.000	ug/L	20		20	
Selenium	500.0000	573.0000	ug/L	15		20	
Silver	1000.000	963.0000	ug/L	-4		20	
Thallium	500.0000	536.0000	ug/L	7		20	
Titanium	20000.00	2220.000	ug/L	-89			
Vanadium	500.0000	549.0000	ug/L	10		20	
Zinc	1000.000	1110.000	ug/L	11		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699158

Run Name :
Filename : tr212122

Injected : 31-JUL-2003 20:43
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	535100.0	ug/L	7			
Antimony	500.0000	475.0000	ug/L	-5		20	
Arsenic	500.0000	553.0000	ug/L	11		20	
Barium	500.0000	510.0000	ug/L	2		20	
Beryllium	500.0000	476.0000	ug/L	-5		20	
Cadmium	1000.000	957.0000	ug/L	-4		20	
Calcium	500000.0	432800.0	ug/L	-13			
Chromium	500.0000	481.0000	ug/L	-4		20	
Cobalt	500.0000	474.0000	ug/L	-5		20	
Copper	500.0000	525.0000	ug/L	5		20	
Iron	200000.0	180200.0	ug/L	-10			
Lead	1000.000	871.0000	ug/L	-13		20	
Magnesium	500000.0	503200.0	ug/L	1			
Manganese	500.0000	479.0000	ug/L	-4		20	
Molybdenum	500.0000	478.0000	ug/L	-4		20	
Nickel	1000.000	1010.000	ug/L	1		20	
Selenium	500.0000	516.0000	ug/L	3		20	
Silver	1000.000	1070.000	ug/L	7		20	
Thallium	500.0000	465.0000	ug/L	-7		20	
Titanium	20000.00	2040.000	ug/L	-90			
Vanadium	500.0000	498.0000	ug/L	0		20	
Zinc	1000.000	1000.000	ug/L	0		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699194

Run Name :
Filename : tr212158

Injected : 31-JUL-2003 23:48
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	542300.0	ug/L	8			
Antimony	500.0000	485.0000	ug/L	-3	20		
Arsenic	500.0000	563.0000	ug/L	13	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	482.0000	ug/L	-4	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	435600.0	ug/L	-13			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	488.0000	ug/L	-2	20		
Copper	500.0000	531.0000	ug/L	6	20		
Iron	200000.0	184600.0	ug/L	-8			
Lead	1000.000	892.0000	ug/L	-11	20		
Magnesium	500000.0	514500.0	ug/L	3			
Manganese	500.0000	493.0000	ug/L	-1	20		
Molybdenum	500.0000	477.0000	ug/L	-5	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	528.0000	ug/L	6	20		
Silver	1000.000	1080.000	ug/L	8	20		
Thallium	500.0000	474.0000	ug/L	-5	20		
Titanium	20000.00	2070.000	ug/L	-90			
Vanadium	500.0000	507.0000	ug/L	1	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr211962	CS				31-JUL-2003	06:59	1.0				1		
002	tr211963	ICV				31-JUL-2003	07:16	1.0				2		
003	tr211964	ICB				31-JUL-2003	07:21	1.0						
004	tr211965	CRI				31-JUL-2003	07:35	1.0				3		
005	tr211966	ICSAB				31-JUL-2003	07:45	1.0				4		4:MG=523000
006	tr211967	BLANK	QC220785	83303	Soil	31-JUL-2003	07:50	1.0		2				
007	tr211968	BS	QC220786	83303	Soil	31-JUL-2003	07:57	1.0						
008	tr211969	BSD	QC220787	83303	Soil	31-JUL-2003	08:01	1.0						
009	tr211970	MSS	166620-002	83303	Soil	31-JUL-2003	08:06	1.0						4:FE=273900
010	tr211971	SER	QC220790	83303	Soil	31-JUL-2003	08:12	5.0						
011	tr211972	MS	QC220788	83303	Soil	31-JUL-2003	08:15	1.0						5:FE=318300
012	tr211973	MSD	QC220789	83303	Soil	31-JUL-2003	08:19	1.0						5:FE=270800
013	tr211974	SAMPLE	166611-001	83303	Soil	31-JUL-2003	08:25	1.0						1:AL=112300
014	tr211976	CCV				31-JUL-2003	08:35	1.0				5		
015	tr211977	CCB				31-JUL-2003	08:43	1.0						
016	tr211978	SAMPLE	166611-002	83303	Soil	31-JUL-2003	08:47	1.0						1:AL=118400
017	tr211979	SAMPLE	166611-003	83303	Soil	31-JUL-2003	08:51	1.0						2:AL=132200
018	tr211980	SAMPLE	166611-004	83303	Soil	31-JUL-2003	08:55	1.0						3:FE=191000
019	tr211981	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:01	1.0						5:CA=256000
020	tr211982	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:05	1.0						
021	tr211983	SAMPLE	166616-003	83303	Miscel	31-JUL-2003	09:09	1.0						
022	tr211984	SAMPLE	166620-003	83303	Soil	31-JUL-2003	09:16	1.0						4:FE=344300
023	tr211985	SAMPLE	166620-004	83303	Soil	31-JUL-2003	09:20	1.0						5:FE=435400
024	tr211986	SAMPLE	166620-005	83303	Soil	31-JUL-2003	09:24	1.0						4:FE=338100
025	tr211987	SAMPLE	166620-006	83303	Soil	31-JUL-2003	09:28	1.0						5:FE=405100
026	tr211988	CCV				31-JUL-2003	09:35	1.0				6		
027	tr211989	CCB				31-JUL-2003	09:47	1.0						
028	tr211990	SER	QC220622	83259	Soil	31-JUL-2003	09:51	5.0						
029	tr211991	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:55	1.0						5:CA=249900
030	tr211992	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:59	1.0						
031	tr211993	SAMPLE	166620-008	83303	Soil	31-JUL-2003	10:03	1.0						4:FE=409200
032	tr211994	SAMPLE	166620-009	83303	Soil	31-JUL-2003	10:07	1.0						4:FE=463500

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: mev Date: 7/31/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename Type	Samplerum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr211995 SAMPLE	166620-010	83303 Soil	31-JUL-2003 10:11	1.0	46.29630		3:FE=577200
034	tr211996 SAMPLE	166620-011	83303 Soil	31-JUL-2003 10:15	1.0	43.10345		4:FE=638600
035	tr211997 SAMPLE	166620-012	83303 Soil	31-JUL-2003 10:19	1.0	40.16064		3:FE=710000
036	tr211998 SAMPLE	166620-013	83303 Soil	31-JUL-2003 10:22	1.0	48.54369	1	3:FE=476600
037	tr211999 SAMPLE	166620-014	83303 Soil	31-JUL-2003 10:26	1.0	39.06250		3:FE=635500
038	tr212000 CCV		31-JUL-2003 10:38	1.0	1.0		7	
039	tr212001 CCB		31-JUL-2003 10:55	1.0	1.0			
040	tr212002 SAMPLE	166620-010	83303 Soil	31-JUL-2003 11:02	1.0	46.29630		3:FE=585500
041	tr212003 SAMPLE	166620-013	83303 Soil	31-JUL-2003 11:06	1.0	48.54369		3:FE=481700
042	tr212004 MS	QC220620	83259 Soil	31-JUL-2003 11:10	1.0	38.75969		2:FE=218200
043	tr212005 MSD	QC220621	83259 Soil	31-JUL-2003 11:14	1.0	48.07692		2:FE=207400
044	tr212006 SAMPLE	166561-005	83259 Soil	31-JUL-2003 11:17	1.0	46.08295		3:FE=201100
045	tr212007 SAMPLE	166561-016	83259 Soil	31-JUL-2003 11:21	1.0	48.07692		1:FE=169800
046	tr212008 BLANK	QC220254	83173 Water	31-JUL-2003 11:26	1.0	1.0		
047	tr212009 BS	QC220255	83173 Water	31-JUL-2003 11:30	1.0	1.0		
048	tr212010 BSD	QC220256	83173 Water	31-JUL-2003 11:34	1.0	1.0		
049	tr212011 BLANK	QC220254	83173 Water	31-JUL-2003 11:41	1.0	1.0		
050	tr212012 CCV		31-JUL-2003 11:45	1.0	1.0		5	
051	tr212013 CCB		31-JUL-2003 11:52	1.0	1.0			
052	tr212014 MSS	166504-001	83173 Water	31-JUL-2003 12:00	1.0	1.0	1	
053	tr212015 SER	QC220259	83173 Water	31-JUL-2003 12:04	5.0	1.0		
054	tr212016 MSS	166504-001	83173 Water	31-JUL-2003 12:08	1.0	1.0		
055	tr212017 MS	QC220257	83173 Water	31-JUL-2003 12:11	1.0	1.0		
056	tr212018 MSD	QC220258	83173 Water	31-JUL-2003 12:15	1.0	1.0		
057	tr212019 SAMPLE	166512-001	83173 Water	31-JUL-2003 12:18	1.0	1.0	1	2:CA=700700
058	tr212020 SAMPLE	166512-001	83173 Water	31-JUL-2003 12:22	1.0	1.0		2:CA=689600
059	tr212021 SAMPLE	166539-001	83173 Water	31-JUL-2003 12:25	1.0	1.0	2	2:MG=616900
060	tr212022 SAMPLE	166539-001	83173 Water	31-JUL-2003 12:29	1.0	1.0	2	2:MG=611300
061	tr212023 SAMPLE	166504-002	83173 Water	31-JUL-2003 12:32	1.0	1.0	2	
062	tr212024 CCV		31-JUL-2003 12:37	1.0	1.0		6	
063	tr212025 CCB		31-JUL-2003 12:43	1.0	1.0			
064	tr212026 SAMPLE	166504-003	83173 Water	31-JUL-2003 12:47	1.0	1.0		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: mevny Date: 7/31/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212027 SAMPLE	166504-004	83173	Water	31-JUL-2003	12:50	1.0	3					2:MG=1416000
066	tr212028 BLANK	QC220752	83297	Soil	31-JUL-2003	12:54	1.0	1					
067	tr212029 BS	QC220753	83297	Soil	31-JUL-2003	12:57	1.0						
068	tr212030 BSD	QC220754	83297	Soil	31-JUL-2003	13:01	1.0						
069	tr212031 MSS	166603-001	83297	Soil	31-JUL-2003	13:04	1.0	4					4:MG=1632000
070	tr212032 MS	QC220755	83297	Soil	31-JUL-2003	13:08	1.0	1					4:MG=1487000
071	tr212033 MSD	QC220756	83297	Soil	31-JUL-2003	13:11	1.0	2					4:MG=1256000
072	tr212034 SAMPLE	166603-002	83297	Soil	31-JUL-2003	13:15	1.0						6:MG=2059000
073	tr212035 SAMPLE	166603-003	83297	Soil	31-JUL-2003	13:18	1.0						6:FE=1948000
074	tr212036 CCV				31-JUL-2003	13:42	1.0				5		
075	tr212037 CCB				31-JUL-2003	13:47	1.0						
076	tr212038 BLANK	QC220782	83302	Water	31-JUL-2003	13:58	1.0						
077	tr212039 BS	QC220783	83302	Water	31-JUL-2003	14:01	1.0						
078	tr212040 BSD	QC220784	83302	Water	31-JUL-2003	14:05	1.0						
079	tr212041 SAMPLE	166620-001	83302	Water	31-JUL-2003	14:08	1.0	1					
080	tr212042 SAMPLE	166620-007	83302	Water	31-JUL-2003	14:12	1.0						
081	tr212043 SAMPLE	166585-005	83297	Miscel	31-JUL-2003	14:15	1.0						
082	tr212044 SAMPLE	166620-001	83302	Water	31-JUL-2003	14:19	1.0						
083	tr212045 ICSAB				31-JUL-2003	14:23	1.0				4		4:MG=517600
084	tr212046 CCV				31-JUL-2003	14:29	1.0				6		
085	tr212047 CCB				31-JUL-2003	14:34	1.0						
086	tr212048 SAMPLE	166398-008	83327	Water	31-JUL-2003	14:38	1.0						
087	tr212049 BLANK	QC220746	83296	Soil	31-JUL-2003	14:42	1.0						
088	tr212050 BS	QC220747	83296	Soil	31-JUL-2003	14:49	1.0						
089	tr212051 BSD	QC220748	83296	Soil	31-JUL-2003	14:53	1.0						
090	tr212052 MSS	166561-022	83296	Soil	31-JUL-2003	14:57	1.0						
091	tr212053 SER	QC220751	83296	Soil	31-JUL-2003	15:00	5.0						
092	tr212054 MS	QC220749	83296	Soil	31-JUL-2003	15:04	1.0						4:CA=224300
093	tr212055 MSD	QC220750	83296	Soil	31-JUL-2003	15:07	1.0						2:FE=188900
094	tr212056 SAMPLE	166561-024	83296	Soil	31-JUL-2003	15:11	1.0						3:FE=232700
095	tr212057 SAMPLE	166561-025	83296	Soil	31-JUL-2003	15:15	1.0						4:FE=280400
096	tr212058 CCV				31-JUL-2003	15:20	1.0				5		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Mei Date: 7/31/03
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SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
097	tr212059 CCB		31-JUL-2003 15:24	1.0	1.0			
098	tr212060 SAMPLE	166561-026	83296 Soil	31-JUL-2003 15:31	47.16981			3:FE=258300
099	tr212061 SAMPLE	166561-027	83296 Soil	31-JUL-2003 15:34	44.44444			3:FE=246000
100	tr212062 SAMPLE	166561-031	83296 Soil	31-JUL-2003 15:38	46.72897			3:FE=231100
101	tr212063 SAMPLE	166561-032	83296 Soil	31-JUL-2003 15:41	46.29630			3:FE=189300
102	tr212064 SAMPLE	166561-033	83296 Soil	31-JUL-2003 15:45	50.0			3:FE=194900
103	tr212065 SAMPLE	166561-034	83296 Soil	31-JUL-2003 15:48	44.64286			2:FE=228200
104	tr212066 SAMPLE	166561-036	83296 Soil	31-JUL-2003 15:51	39.52569			4:FE=290800
105	tr212067 SAMPLE	166561-037	83296 Soil	31-JUL-2003 15:55	41.8410			3:FE=238000
106	tr212068 SAMPLE	166561-038	83296 Soil	31-JUL-2003 15:58	46.94836			2:FE=250000
107	tr212069 SAMPLE	166561-039	83296 Soil	31-JUL-2003 16:02	46.08295			3:FE=236000
108	tr212070 CCV		31-JUL-2003 16:08	1.0	1.0		5	
109	tr212071 CCB		31-JUL-2003 16:18	1.0	1.0			
110	tr212072 SAMPLE	166398-008	83327 Water	31-JUL-2003 16:24	1.0			
111	tr212073 PDS	QC220908	83296 Soil	31-JUL-2003 16:28	42.91845		8 9	4:FE=247200
112	tr212074 SAMPLE	166561-038	83296 Soil	31-JUL-2003 16:31	46.94836	1		2:FE=247400
113	tr212075 SAMPLE	166561-040	83296 Soil	31-JUL-2003 16:35	44.44444			3:FE=251100
114	tr212076 SAMPLE	166561-041	83296 Soil	31-JUL-2003 16:38	50.0			4:FE=236900
115	tr212077 SAMPLE	166561-043	83296 Soil	31-JUL-2003 16:42	49.26108	1		3:FE=210200
116	tr212078 SAMPLE	166561-044	83296 Soil	31-JUL-2003 16:45	49.50495			3:FE=506800
117	tr212079 SAMPLE	166561-045	83296 Soil	31-JUL-2003 16:49	45.45455			3:FE=229100
118	tr212080 SAMPLE	166561-046	83296 Soil	31-JUL-2003 16:52	47.84689	1		3:FE=217500
119	tr212081 SAMPLE	166561-047	83296 Soil	31-JUL-2003 16:56	37.17472			3:FE=305300
120	tr212082 CCV		31-JUL-2003 17:01	1.0	1.0		6	
121	tr212083 CCB		31-JUL-2003 17:07	1.0	1.0			
122	tr212084 BLANK	QC220724	83290 Water	31-JUL-2003 17:11	1.0			
123	tr212085 BS	QC220725	83290 Water	31-JUL-2003 17:17	1.0			
124	tr212086 BSD	QC220726	83290 Water	31-JUL-2003 17:21	1.0			
125	tr212087 MSS	166554-002	83290 Water	31-JUL-2003 17:25	1.0	2		2:MG=1883000
126	tr212088 SER	QC220729	83290 Water	31-JUL-2003 17:29	1.0			2:MG=369600
127	tr212089 MSS	166554-002	83290 Water	31-JUL-2003 17:32	1.0	3		2:MG=1829000
128	tr212091 MS	QC220727	83290 Water	31-JUL-2003 17:42	1.0	1		2:MG=1920000

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Date: 7/13

Analyst: *10/11/03*

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SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
129	tr212092	MSD	QC220728	83290	Water	31-JUL-2003	17:45	1.0	1					2:MG=1914000
130	tr212093	SAMPLE	166554-001	83290	Water	31-JUL-2003	17:49	1.0	1					3:MG=3540000
131	tr212094	SAMPLE	166554-001	83290	Water	31-JUL-2003	17:53	1.0						3:MG=3536000
132	tr212095	CCV				31-JUL-2003	18:06	1.0				6		
133	tr212096	CCB				31-JUL-2003	18:37	1.0						
134	tr212097	SAMPLE	166561-043	83296	Soil	31-JUL-2003	18:40	1.0	49.26108	1				3:FE=245100
135	tr212098	SAMPLE	166561-046	83296	Soil	31-JUL-2003	18:44	1.0	47.84689					3:FE=262000
136	tr212099	MSS	166554-002	83290	Water	31-JUL-2003	18:47	20.0	1.0	3				1:MG=109700
137	tr212100	PDS				31-JUL-2003	18:52	1.0	1.0			10	11	2:MG=1947000
138	tr212101	ICSAB	QC220938	83290	Water	31-JUL-2003	18:56	1.0	1.0			4		4:MG=583000
139	tr212103	CCV				31-JUL-2003	19:08	1.0	1.0			6		
140	tr212104	CCB				31-JUL-2003	19:15	1.0	1.0					
141	tr212105	SAMPLE	166599-014	83290	Water	31-JUL-2003	19:23	1.0	1.0	1				
142	tr212106	SAMPLE	166560-022	83290	Water	31-JUL-2003	19:27	1.0	1.0	1				
143	tr212107	SAMPLE	166561-023	83290	Water	31-JUL-2003	19:31	1.0	1.0	1				
144	tr212108	SAMPLE	166561-028	83290	Water	31-JUL-2003	19:36	1.0	1.0	3				
145	tr212109	SAMPLE	166604-001	83290	Water	31-JUL-2003	19:40	1.0	1.0					1:CA=147100
146	tr212110	SAMPLE	166552-001	83290	Water	31-JUL-2003	19:44	1.0	1.0					2:CA=246500
147	tr212111	CCV				31-JUL-2003	19:51	1.0	1.0	3		5		
148	tr212112	X	rinse			31-JUL-2003	19:58	1.0	1.0					
149	tr212113	CCB				31-JUL-2003	20:02	1.0	1.0	2				
150	tr212114	SAMPLE	166552-002	83290	Water	31-JUL-2003	20:06	1.0	1.0					1:CA=450700
151	tr212115	SAMPLE	166552-003	83290	Water	31-JUL-2003	20:11	1.0	1.0					1:CA=176800
152	tr212116	SAMPLE	166552-004	83290	Water	31-JUL-2003	20:15	1.0	1.0	1				
153	tr212117	SAMPLE	166552-005	83290	Water	31-JUL-2003	20:19	1.0	1.0	1				
154	tr212118	SAMPLE	166552-006	83290	Water	31-JUL-2003	20:23	1.0	1.0					1:MG=102400
155	tr212119	SAMPLE	166552-008	83290	Water	31-JUL-2003	20:28	1.0	1.0					
156	tr212120	SAMPLE	166552-009	83290	Water	31-JUL-2003	20:32	1.0	1.0					3:CA=292300
157	tr212121	SAMPLE	166552-007	83290	Water	31-JUL-2003	20:36	1.0	1.0					4:AL=535100
158	tr212122	ICSAB				31-JUL-2003	20:43	1.0	1.0			4		
159	tr212123	CCV				31-JUL-2003	20:52	1.0	1.0	1		6		
160	tr212124	X	rinse			31-JUL-2003	20:59	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Alvinda Date: 7/31/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
161	tr212125	CCB				31-JUL-2003	21:05	1.0	1					
162	tr212126	BLANK	QC220573	83247	TCIP	L	31-JUL-2003	21:10	1.0	3				
163	tr212127	BS	QC220574	83247	TCIP	L	31-JUL-2003	21:14	1.0	5				
164	tr212128	BSD	QC220575	83247	TCIP	L	31-JUL-2003	21:18	1.0	5				
165	tr212129	MSS	166563-005	83247	TCIP	L	31-JUL-2003	21:23	1.0	6				
166	tr212130	SER	QC220935	83247	TCIP	L	31-JUL-2003	21:26	1.0					
167	tr212131	SDUP	QC220576	83247	TCIP	L	31-JUL-2003	21:32	1.0					
168	tr212132	SSPIKE	QC220577	83247	TCIP	L	31-JUL-2003	21:36	1.0					
169	tr212133	SAMPLE	166557-001	83247	TCIP	L	31-JUL-2003	21:41	1.0	2				
170	tr212134	CCV				31-JUL-2003	21:47	1.0	5			5		
171	tr212135	X	rinse			31-JUL-2003	21:55	1.0	1					
172	tr212136	CCB				31-JUL-2003	22:00	1.0	1					
173	tr212137	SAMPLE	166543-002	83173	Water		31-JUL-2003	22:05	1.0	2				
174	tr212138	SAMPLE	166543-004	83173	Water		31-JUL-2003	22:09	1.0	1				
175	tr212139	SAMPLE	166543-006	83173	Water		31-JUL-2003	22:13	1.0	2				
176	tr212140	SAMPLE	166543-008	83173	Water		31-JUL-2003	22:17	1.0	1				
177	tr212141	SAMPLE	166544-004	83173	Water		31-JUL-2003	22:22	1.0	1				2:CA=591100
178	tr212142	SAMPLE	166544-005	83173	Water		31-JUL-2003	22:26	1.0					2:CA=686700
179	tr212143	SAMPLE	166544-006	83173	Water		31-JUL-2003	22:30	1.0					1:MG=129200
180	tr212144	SAMPLE	166544-007	83173	Water		31-JUL-2003	22:35	1.0					1:CA=476700
181	tr212145	SAMPLE	166544-008	83173	Water		31-JUL-2003	22:39	1.0	1				
182	tr212146	CCV				31-JUL-2003	22:47	1.0	1			6		
183	tr212147	X	rinse			31-JUL-2003	22:54	1.0	1					
184	tr212148	CCB				31-JUL-2003	23:02	1.0	2					
185	tr212149	BLANK	QC220867	83326	Wipe		31-JUL-2003	23:06	1.0	3				
186	tr212150	BS	QC220868	83326	Wipe		31-JUL-2003	23:11	1.0	3				
187	tr212151	BSD	QC220869	83326	Wipe		31-JUL-2003	23:15	1.0					
188	tr212152	SAMPLE	166606-001	83326	Wipe		31-JUL-2003	23:21	1.0					
189	tr212153	SAMPLE	166606-002	83326	Wipe		31-JUL-2003	23:25	1.0					
190	tr212154	SAMPLE	166612-001	83337	Miscel		31-JUL-2003	23:29	1.0					46.29630
191	tr212155	SAMPLE	166612-002	83337	Miscel		31-JUL-2003	23:34	1.0					39.06250
192	tr212156	SAMPLE	166608-008	83337	Soil		31-JUL-2003	23:38	1.0					3:FE=274100

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Mei Wu Date: 7/31/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Std's Used	>LR
193	tr212157 SAMPLE	166608-013	83337 Soil	31-JUL-2003 23:42 1.0	50.76142			2:FE=261200
194	tr212158 ICSAB			31-JUL-2003 23:48 1.0	1.0		4	4:AL=542300
195	tr212159 CCV			31-JUL-2003 23:55 1.0	1.0	2	5	
196	tr212160 X	rinse		01-AUG-2003 00:03 1.0	1.0			
197	tr212161 CCB			01-AUG-2003 00:07 1.0	1.0	1		

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Meena Date: 7/31/03

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ethod: 6010B Standard: blank
 un Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.001	.001	-.025	.001	.000
SDev	.001	.000	.000	.000	.000	.001	.000
%RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.007	.001	-.000	.000	-.000	-.002
SDev	.000	.000	.001	.001	.000	.000	.000
%RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0325	-.0133
SDev	.001	.000	.000	.000	.000	.0000	.0000
%RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0008	.0001	.000	.071			
SDev	.0001	.0001	.000	.000			
%RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

Method: 6010B Standard: cst hi
 Run Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

ethod: 6010B

Slope = Conc(SIR)/IR

lement	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
b2068	206.831	Multiple	Standards	6625.80	4.25512	08/01/03 05:53:15
b206A	206.832	Multiple	Standards	10861.1	-4.95256	08/01/03 05:53:15
s1890	189.042	Multiple	Standards	12606.0	12.0996	08/01/03 05:53:15
a4934	493.409	Multiple	Standards	180.343	-.106017	08/01/03 05:53:15
e3130	313.042	Multiple	Standards	145.252	3.58223	08/01/03 05:53:15
d2265	226.502	Multiple	Standards	424.876	-.420509	08/01/03 05:53:15
r2677	267.716	Multiple	Standards	4035.62	-1.45267	08/01/03 05:53:15
o2286	228.616	Multiple	Standards	3592.62	.689783	08/01/03 05:53:15
u3247	324.754	Multiple	Standards	1698.73	11.3432	08/01/03 05:53:15
b2203	220.351	Multiple	Standards	3210.65	-2.02149	08/01/03 05:53:15
b220A	220.352	Multiple	Standards	3068.61	.349390	08/01/03 05:53:15
o2020	202.030	Multiple	Standards	3588.89	-.796321	08/01/03 05:53:15
i2316	231.604	Multiple	Standards	1287.52	.069626	08/01/03 05:53:15
se1960	196.021	Multiple	Standards	12134.7	20.6758	08/01/03 05:53:15
se196A	196.022	Multiple	Standards	9986.62	-9.52698	08/01/03 05:53:15
ag3280	328.068	Multiple	Standards	1476.84	-.513876	08/01/03 05:53:15
rl1908	190.864	Multiple	Standards	18521.3	8.55638	08/01/03 05:53:15
v_2924	292.402	Multiple	Standards	2605.16	-.984608	08/01/03 05:53:15
zn2138	213.856	Multiple	Standards	3715.97	-22.0249	08/01/03 05:53:15
Al3082	308.215	Multiple	Standards	43764.1	-1421.94	08/01/03 05:53:15
Ca3179	317.933	Multiple	Standards	33923.4	451.181	08/01/03 05:53:15
Fe2714	271.441	Multiple	Standards	41884.3	34.6737	08/01/03 05:53:15
Mg2790	279.079	Multiple	Standards	52929.5	-7.62003	08/01/03 05:53:15
Mn2576	257.610	Multiple	Standards	517.941	-.046598	08/01/03 05:53:15
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Ti3349	334.941	Multiple	Standards	545.203	-38.5847	08/01/03 05:53:15

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltpe :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	486.1000	ug/L	-3	10		
Antimony	500.0000	546.0000	ug/L	9	10		
Arsenic	250.0000	261.0000	ug/L	4	10		
Barium	500.0000	493.0000	ug/L	-1	10		
Beryllium	50.00000	51.20000	ug/L	2	10		
Cadmium	50.00000	49.10000	ug/L	-2	10		
Calcium	1000.000	984.1000	ug/L	-2	10		
Chromium	100.0000	100.0000	ug/L	0	10		
Cobalt	250.0000	249.0000	ug/L	0	10		
Copper	100.0000	102.0000	ug/L	2	10		
Iron	500.0000	493.6000	ug/L	-1	10		
Lead	250.0000	248.0000	ug/L	-1	10		
Magnesium	1000.000	1012.000	ug/L	1	10		
Manganese	50.00000	49.30000	ug/L	-1	10		
Molybdenum	500.0000	487.0000	ug/L	-3	10		
Nickel	250.0000	252.0000	ug/L	1	10		
Selenium	250.0000	248.0000	ug/L	-1	10		
Silver	50.00000	49.10000	ug/L	-2	10		
Thallium	250.0000	242.0000	ug/L	-3	10		
Titanium	500.0000	508.0000	ug/L	2	10		
Vanadium	250.0000	247.0000	ug/L	-1	10		
Zinc	50.00000	49.60000	ug/L	-1	10		

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	144.9000	ug/L	45	50	
Antimony	60.00000	80.10000	ug/L	34	50	
Arsenic	5.000000	4.100000	ug/L	-18	50	
Barium	10.00000	9.950000	ug/L	-1	50	
Beryllium	2.000000	1.940000	ug/L	-3	50	
Cadmium	5.000000	4.750000	ug/L	-5	50	
Chromium	10.00000	9.490000	ug/L	-5	50	
Cobalt	20.00000	19.20000	ug/L	-4	50	
Copper	10.00000	9.380000	ug/L	-6	50	
Iron	100.0000	103.8000	ug/L	4	50	
Lead	3.000000	3.690000	ug/L	23	50	
Manganese	10.00000	9.860000	ug/L	-1	50	
Molybdenum	20.00000	16.90000	ug/L	-16	50	
Nickel	20.00000	20.30000	ug/L	2	50	
Selenium	5.000000	3.380000	ug/L	-32	50	
Silver	5.000000	4.750000	ug/L	-5	50	
Thallium	5.000000	7.200000	ug/L	44	50	
Vanadium	10.00000	9.290000	ug/L	-7	50	
Zinc	20.00000	21.30000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	708.8000	ug/L	-5		10	
Antimony		750.0000	801.0000	ug/L	7		10	
Arsenic		375.0000	374.0000	ug/L	0		10	
Barium		750.0000	733.0000	ug/L	-2		10	
Beryllium		75.00000	75.30000	ug/L	0		10	
Cadmium		75.00000	72.60000	ug/L	-3		10	
Calcium		1500.000	1476.000	ug/L	-2		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	368.0000	ug/L	-2		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	728.0000	ug/L	-3		10	
Lead		375.0000	339.0000	ug/L	-10		10	
Magnesium		1500.000	1488.000	ug/L	-1		10	
Manganese		75.00000	73.30000	ug/L	-2		10	
Molybdenum		750.0000	694.0000	ug/L	-7		10	
Nickel		375.0000	373.0000	ug/L	-1		10	
Selenium		375.0000	350.0000	ug/L	-7		10	
Silver		75.00000	72.60000	ug/L	-3		10	
Thallium		375.0000	367.0000	ug/L	-2		10	
Titanium		750.0000	742.0000	ug/L	-1		10	
Vanadium		375.0000	367.0000	ug/L	-2		10	
Zinc		75.00000	73.20000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	477.9000	ug/L	-4		10	
Antimony		500.0000	488.0000	ug/L	-2		10	
Arsenic		250.0000	263.0000	ug/L	5		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	49.90000	ug/L	0		10	
Cadmium		50.00000	49.80000	ug/L	0		10	
Calcium		1000.000	1018.000	ug/L	2		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	250.0000	ug/L	0		10	
Copper		100.0000	104.0000	ug/L	4		10	
Iron		500.0000	496.1000	ug/L	-1		10	
Lead		250.0000	241.0000	ug/L	-4		10	
Magnesium		1000.000	988.9000	ug/L	-1		10	
Manganese		50.00000	49.70000	ug/L	-1		10	
Molybdenum		500.0000	462.0000	ug/L	-8		10	
Nickel		250.0000	254.0000	ug/L	2		10	
Selenium		250.0000	240.0000	ug/L	-4		10	
Silver		50.00000	50.30000	ug/L	1		10	
Thallium		250.0000	244.0000	ug/L	-2		10	
Titanium		500.0000	509.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	50.00000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	489.5000	ug/L	-2		10	
Antimony		500.0000	508.0000	ug/L	2		10	
Arsenic		250.0000	263.0000	ug/L	5		10	
Barium		500.0000	505.0000	ug/L	1		10	
Beryllium		50.00000	51.70000	ug/L	3		10	
Cadmium		50.00000	50.40000	ug/L	1		10	
Calcium		1000.000	1089.000	ug/L	9		10	
Chromium		100.0000	104.0000	ug/L	4		10	
Cobalt		250.0000	256.0000	ug/L	2		10	
Copper		100.0000	107.0000	ug/L	7		10	
Iron		500.0000	548.6000	ug/L	10		10	
Lead		250.0000	253.0000	ug/L	1		10	
Magnesium		1000.000	1052.000	ug/L	5		10	
Manganese		50.00000	52.20000	ug/L	4		10	
Molybdenum		500.0000	486.0000	ug/L	-3		10	
Nickel		250.0000	260.0000	ug/L	4		10	
Selenium		250.0000	250.0000	ug/L	0		10	
Silver		50.00000	51.80000	ug/L	4		10	
Thallium		250.0000	253.0000	ug/L	1		10	
Titanium		500.0000	525.0000	ug/L	5		10	
Vanadium		250.0000	258.0000	ug/L	3		10	
Zinc		50.00000	52.30000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	770.2000	ug/L	3	10	
Antimony		750.0000	783.0000	ug/L	4	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.50000	ug/L	-2	10	
Calcium		1500.000	1539.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	752.2000	ug/L	0	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	758.0000	ug/L	1	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079073

Run Name :
Filename : tr212236

Injected : 01-AUG-2003 12:30
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	503.8000	ug/L	1	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	262.0000	ug/L	5	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	52.60000	ug/L	5	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	1054.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	532.3000	ug/L	6	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1068.000	ug/L	7	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	472.0000	ug/L	-6	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	48.90000	ug/L	-2	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.10000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079085

Run Name :
Filename : tr212248

Injected : 01-AUG-2003 13:22
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	739.1000	ug/L	-1		10	
Antimony		750.0000	786.0000	ug/L	5		10	
Arsenic		375.0000	387.0000	ug/L	3		10	
Barium		750.0000	728.0000	ug/L	-3		10	
Beryllium		75.00000	76.00000	ug/L	1		10	
Cadmium		75.00000	72.50000	ug/L	-3		10	
Calcium		1500.000	1457.000	ug/L	-3		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	367.0000	ug/L	-2		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	789.0000	ug/L	5		10	
Lead		375.0000	404.0000	ug/L	8		10	
Magnesium		1500.000	1472.000	ug/L	-2		10	
Manganese		75.00000	73.50000	ug/L	-2		10	
Molybdenum		750.0000	772.0000	ug/L	3		10	
Nickel		375.0000	374.0000	ug/L	0		10	
Selenium		375.0000	393.0000	ug/L	5		10	
Silver		75.00000	75.80000	ug/L	1		10	
Thallium		375.0000	367.0000	ug/L	-2		10	
Titanium		750.0000	753.0000	ug/L	0		10	
Vanadium		375.0000	366.0000	ug/L	-2		10	
Zinc		75.00000	73.10000	ug/L	-3		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079003
Filename: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL	
Antimony	[4.1100]	60.00000	ug/L	<RL	
Arsenic	[0.5980]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.9420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[1.6380]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.1590]	10.00000	ug/L	<RL	
Molybdenum	[1.7300]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.0000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[4.3900]	5.000000	ug/L	<RL	
Titanium	[0.9030]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.4280]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079015
Filename: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL	
Antimony	[10.500]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[10.030]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.5330]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.4280]	10.00000	ug/L	<RL	
Molybdenum	[3.6500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.2100]	5.000000	ug/L	<RL	
Titanium	[0.6130]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.1780]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079027
Filename: tr212190

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[6.4300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1160]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[57.280]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[2.3300]	10.00000	ug/L	<	RL
Iron	[14.150]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[4.9880]	500.0000	ug/L	<	RL
Manganese	[0.4800]	10.00000	ug/L	<	RL
Molybdenum	[2.2900]	20.00000	ug/L	<	RL
Nickel	[0.3410]	20.00000	ug/L	<	RL
Selenium	[2.1400]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.5700]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.4830]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 09:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2190]	100.0000	ug/L	<RL		
Antimony	[2.7100]	60.00000	ug/L	<RL		
Arsenic	[0.8720]	5.000000	ug/L	<RL		
Barium	[0.0330]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0450]	5.000000	ug/L	<RL		
Calcium	[56.840]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1400]	10.00000	ug/L	<RL		
Iron	[13.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[12.470]	500.0000	ug/L	<RL		
Manganese	[0.5800]	10.00000	ug/L	<RL		
Molybdenum	[2.1100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.2500]	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4870]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 10:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[11.300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1670]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[63.450]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.1300]	10.00000	ug/L	<	RL
Copper	[2.5800]	10.00000	ug/L	<	RL
Iron	[19.660]	100.0000	ug/L	<	RL
Lead	[0.9820]	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.5340]	10.00000	ug/L	<	RL
Molybdenum	[5.7800]	20.00000	ug/L	<	RL
Nickel	[0.7750]	20.00000	ug/L	<	RL
Selenium	[2.8000]	5.000000	ug/L	<	RL
Silver	[0.1070]	5.000000	ug/L	<	RL
Thallium	[1.7600]	5.000000	ug/L	<	RL
Titanium	[2.2400]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.8880]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079062
Filename: tr212225

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2710]	100.0000	ug/L	<RL		
Antimony	[21.700]	60.00000	ug/L	<RL		
Arsenic	[2.6400]	5.000000	ug/L	<RL		
Barium	[0.0450]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0870]	10.00000	ug/L	<RL		
Copper	[2.1700]	10.00000	ug/L	<RL		
Iron	[14.020]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4760]	10.00000	ug/L	<RL		
Molybdenum	[1.4600]	20.00000	ug/L	<RL		
Nickel	[0.5200]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.0320]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2500]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079074
Filename: tr212237

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 12:34

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[21.200]	60.00000	ug/L	<RL	
Arsenic	[0.0640]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.4450]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[4.2090]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.6400]	10.00000	ug/L	<RL	
Iron	[30.200]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.3840]	10.00000	ug/L	<RL	
Molybdenum	[3.8400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[4.0300]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8500]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079086
Filename: tr212249

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 13:28

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[5.1740]	100.0000	ug/L	<RL	
Antimony	[8.7500]	60.00000	ug/L	<RL	
Arsenic	[1.4400]	5.000000	ug/L	<RL	
Barium	[0.1250]	10.00000	ug/L	<RL	
Beryllium	[0.4670]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.1900]	10.00000	ug/L	<RL	
Iron	[30.880]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5560]	10.00000	ug/L	<RL	
Molybdenum	[8.8200]	20.00000	ug/L	<RL	
Nickel	[0.3250]	20.00000	ug/L	<RL	
Selenium	[1.8800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.1500]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	994.5000	ug/L	-1	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2001.000	ug/L	0	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1017.000	ug/L	2	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2009.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	501.0000	ug/L	0	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	508600.0	ug/L	2		
Antimony	500.0000	557.0000	ug/L	11	20	
Arsenic	500.0000	549.0000	ug/L	10	20	
Barium	500.0000	505.0000	ug/L	1	20	
Beryllium	500.0000	500.0000	ug/L	0	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	453100.0	ug/L	-9		
Chromium	500.0000	482.0000	ug/L	-4	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	518.0000	ug/L	4	20	
Iron	200000.0	187900.0	ug/L	-6		
Lead	1000.000	848.0000	ug/L	-15	20	
Magnesium	500000.0	520300.0	ug/L	4		
Manganese	500.0000	484.0000	ug/L	-3	20	
Molybdenum	500.0000	458.0000	ug/L	-8	20	
Nickel	1000.000	1040.000	ug/L	4	20	
Selenium	500.0000	499.0000	ug/L	0	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	495.0000	ug/L	-1	20	
Titanium	20000.00	2030.000	ug/L	-90		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	1030.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	541500.0	ug/L	8			
Antimony	500.0000	546.0000	ug/L	9	20		
Arsenic	500.0000	557.0000	ug/L	11	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	526.0000	ug/L	5	20		
Cadmium	1000.000	973.0000	ug/L	-3	20		
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	190300.0	ug/L	-5			
Lead	1000.000	1030.000	ug/L	3	20		
Magnesium	500000.0	545500.0	ug/L	9			
Manganese	500.0000	503.0000	ug/L	1	20		
Molybdenum	500.0000	476.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	516.0000	ug/L	3	20		
Silver	1000.000	894.0000	ug/L	-11	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2110.000	ug/L	-89			
Vanadium	500.0000	508.0000	ug/L	2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079072

Run Name :
Filename : tr212235

Injected : 01-AUG-2003 12:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	516600.0	ug/L	3			
Antimony	500.0000	525.0000	ug/L	5	20		
Arsenic	500.0000	559.0000	ug/L	12	20		
Barium	500.0000	507.0000	ug/L	1	20		
Beryllium	500.0000	516.0000	ug/L	3	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	474600.0	ug/L	-5			
Chromium	500.0000	492.0000	ug/L	-2	20		
Cobalt	500.0000	492.0000	ug/L	-2	20		
Copper	500.0000	522.0000	ug/L	4	20		
Iron	200000.0	191800.0	ug/L	-4			
Lead	1000.000	1100.000	ug/L	10	20		
Magnesium	500000.0	545300.0	ug/L	9			
Manganese	500.0000	501.0000	ug/L	0	20		
Molybdenum	500.0000	486.0000	ug/L	-3	20		
Nickel	1000.000	1060.000	ug/L	6	20		
Selenium	500.0000	550.0000	ug/L	10	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	509.0000	ug/L	2	20		
Titanium	20000.00	2100.000	ug/L	-90			
Vanadium	500.0000	506.0000	ug/L	1	20		
Zinc	1000.000	1060.000	ug/L	6	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 01-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73307079

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212164 CS		01-AUG-2003 05:59	1.0	1.0		1	
002	tr212165 ICB		01-AUG-2003 06:04	1.0	1.0		2	
003	tr212166 ICB		01-AUG-2003 06:21	1.0	1.0		3	
004	tr212167 CRI		01-AUG-2003 06:25	1.0	1.0		4	4:MG=520300
005	tr212168 ICSAB		01-AUG-2003 06:32	1.0	1.0			
006	tr212169 BLANK	QC220939	83342 Soil	01-AUG-2003 06:43	1.0	50.0		
007	tr212170 BS	QC220940	83342 Soil	01-AUG-2003 06:47	1.0	50.0		
008	tr212171 BSD	QC220941	83342 Soil	01-AUG-2003 06:51	1.0	50.0		
009	tr212172 MSS	166599-013	83342 Soil	01-AUG-2003 06:56	1.0	44.64286 2		1:FE=196400
010	tr212173 MSS	166599-013	83342 Soil	01-AUG-2003 07:01	1.0	44.64286 1		1:FE=195700
011	tr212174 SER	QC220944	83342 Soil	01-AUG-2003 07:06	5.0	44.64286		
012	tr212175 SER	QC220944	83342 Soil	01-AUG-2003 07:10	5.0	44.64286 1		
013	tr212176 MSS	166599-013	83342 Soil	01-AUG-2003 07:14	5.0	44.64286		
014	tr212177 CCV	03W1150		01-AUG-2003 07:19	1.0	1.0	5	
015	tr212178 CCB		01-AUG-2003 07:28	1.0	1.0			
016	tr212179 SER	QC220944	83342 Soil	01-AUG-2003 07:32	25.0	44.64286		2:FE=209400
017	tr212180 MS	QC220942	83342 Soil	01-AUG-2003 07:36	1.0	47.16981		2:FE=231300
018	tr212181 MSD	QC220943	83342 Soil	01-AUG-2003 07:40	1.0	40.98361		
019	tr212182 PDS	QC220945	83342 Soil	01-AUG-2003 07:44	1.0	44.64286	6 7	2:FE=207000
020	tr212183 SAMPLE	166599-024	83342 Soil	01-AUG-2003 07:49	1.0	47.84689 3		1:FE=137400
021	tr212184 SAMPLE	166599-025	83342 Soil	01-AUG-2003 07:53	1.0	44.24779 2		2:FE=188900
022	tr212185 SAMPLE	166599-026	83342 Soil	01-AUG-2003 07:57	1.0	39.21569 2		2:FE=172400
023	tr212186 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:01	1.0	45.66210 4		2:FE=167200
024	tr212187 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:05	1.0	47.84689 1		1:FE=139000
025	tr212188 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:09	1.0	45.66210 2		2:FE=166000
026	tr212189 CCV		01-AUG-2003 08:26	1.0	1.0		8	
027	tr212190 CCB		01-AUG-2003 08:39	1.0	1.0			
028	tr212191 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:43	10.0	47.84689		
029	tr212192 SAMPLE	166599-025	83342 Soil	01-AUG-2003 08:47	10.0	44.24779		
030	tr212193 SAMPLE	166599-026	83342 Soil	01-AUG-2003 08:51	10.0	39.21569 1		
031	tr212194 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:55	10.0	45.66210		
032	tr212195 SAMPLE	166643-001	83342 Miscel	01-AUG-2003 09:00	1.0	46.72897		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Mei W Date: 8/1/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 01-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73307079

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
033	tr212196 SAMPLE	166643-002	83342	Miscel	01-AUG-2003 09:04	1.0	43.85965						
034	tr212197 SAMPLE	166643-003	83342	Miscel	01-AUG-2003 09:08	1.0	44.05286						
035	tr212198 SAMPLE	166597-001	83342	Soil	01-AUG-2003 09:12	1.0	48.30918						3:FE=262700
036	tr212199 SAMPLE	166639-001	83342	Soil	01-AUG-2003 09:16	1.0	48.30918						
037	tr212200 SAMPLE	166639-002	83342	Soil	01-AUG-2003 09:20	1.0	45.66210						
038	tr212201 CCV				01-AUG-2003 09:33	1.0	1.0				5		
039	tr212202 CCB				01-AUG-2003 09:39	1.0	1.0						
040	tr212203 BLANK	QC220867	83326	Wipe	01-AUG-2003 09:49	1.0	50.0						
041	tr212204 SAMPLE	166649-002	83342	Soil	01-AUG-2003 09:53	1.0	45.04505						2:FE=250500
042	tr212205 SAMPLE	166649-003	83342	Soil	01-AUG-2003 09:57	1.0	49.50495						3:FE=234100
043	tr212206 SAMPLE	166649-004	83342	Soil	01-AUG-2003 10:01	1.0	43.29004						2:FE=283000
044	tr212207 SAMPLE	166649-005	83342	Soil	01-AUG-2003 10:05	1.0	46.08295						2:FE=243700
045	tr212208 SAMPLE	166649-006	83342	Soil	01-AUG-2003 10:09	1.0	46.29630						2:FE=248000
046	tr212209 SAMPLE	166649-007	83342	Soil	01-AUG-2003 10:13	1.0	47.84689						4:FE=439200
047	tr212210 SAMPLE	166649-008	83342	Soil	01-AUG-2003 10:17	1.0	40.0						4:CA=430200
048	tr212211 SAMPLE	166649-009	83342	Soil	01-AUG-2003 10:20	1.0	49.26108						2:FE=409400
049	tr212212 MSS	166554-002	83290	Water	01-AUG-2003 10:25	20.0	1.0	1					
050	tr212213 CCV				01-AUG-2003 10:35	1.0	1.0				5		
051	tr212214 CCB				01-AUG-2003 10:39	1.0	1.0						
052	tr212215 SER	QC220729	83290	Water	01-AUG-2003 10:43	50.0	1.0						
053	tr212216 SER	QC220729	83290	Water	01-AUG-2003 10:46	100.0	1.0	1					
054	tr212217 SAMPLE	166599-014	83290	Water	01-AUG-2003 10:50	1.0	1.0	1					
055	tr212218 SAMPLE	166560-022	83290	Water	01-AUG-2003 10:54	1.0	1.0						
056	tr212219 SAMPLE	166561-023	83290	Water	01-AUG-2003 10:57	1.0	1.0						
057	tr212220 SAMPLE	166561-028	83290	Water	01-AUG-2003 11:00	1.0	1.0	1					
058	tr212221 SAMPLE	166552-004	83290	Water	01-AUG-2003 11:04	1.0	1.0						
059	tr212222 SAMPLE	166552-005	83290	Water	01-AUG-2003 11:07	1.0	1.0						
060	tr212223 ICSAB				01-AUG-2003 11:18	1.0	1.0				4		4:MG=545500
061	tr212224 CCV				01-AUG-2003 11:27	1.0	1.0				8		
062	tr212225 CCB				01-AUG-2003 11:39	1.0	1.0						
063	tr212226 BLANK	QC220926	83340	Water	01-AUG-2003 11:44	1.0	1.0	1					
064	tr212227 BS	QC220927	83340	Water	01-AUG-2003 11:50	1.0	1.0						

Stdts used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Med Wu Date: 8/13

REPORTING SUMMARY FOR 166560 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166560-022	MET07	07/31/03 19:27	1.0		+	+	+	+	
166560-022	MET07	08/01/03 10:54	1.0	+					
QC220724	MET07	07/31/03 17:11	1.0	+	+	+	+	+	
QC220725	MET07	07/31/03 17:17	1.0		+	+	+	+	
QC220725	MET07	08/01/03 12:38	1.0	+					
QC220726	MET07	07/31/03 17:21	1.0		+	+	+	+	
QC220726	MET07	08/01/03 12:43	1.0	+					
QC220727	MET07	07/31/03 17:42	1.0	+	+	+	+	+	
QC220728	MET07	07/31/03 17:45	1.0	+	+	+	+	+	
QC220729	MET07	07/31/03 17:29	5.0	+	+	+	+	+	
QC220729	MET07	08/01/03 10:43	50.0						
QC220729	MET07	08/01/03 10:46	100.0						
QC220938	MET07	07/31/03 18:52	1.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary

31-JUL-2003 18:42

Batch Number : 83290
Date Extracted : 30-JUL-2003
Extracted by : Patricia V. Vergara
Prep Method : 3010

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 03SS177
Spike #2 ID : 03SS178
Spike #3 ID :

Sample	Type	Client	Matrix	Init		Final		Prep	Clean	pH	Sp 1		Sp 2		Sp 3		Analyses	Comments
				W/V	Units	Vol	D.F.				Vol	D.F.	Vol	Vol	Vol	Vol		
166552-001		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-002		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-003		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-004		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-005		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-006		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-007		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-008		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166552-009		Wil Chee Planning	Water	50	ml	50	1	1	1								CD, PB	
166554-001		Tetra Tech EMI	Water	50	ml	50	1	1	1								T26/ICP	
166554-002		Tetra Tech EMI	Water	50	ml	50	1	1	1								T26/ICP	
166560-022		Treadwell & Rollo	Water	50	ml	50	1	1	1								BA, CU, PB, SB, ZN	mss
166561-023		Treadwell & Rollo	Water	50	ml	50	1	1	1								BA, CU, PB, SB, ZN	
166561-028		Treadwell & Rollo	Water	50	ml	50	1	1	1								TAL/ICP	
166599-014		Treadwell & Rollo	Water	50	ml	50	1	1	1								BA, CU, PB, SB, ZN	
166604-001		LA Chemical	Water	50	ml	50	1	1	1								ICAP	
QC220724	BLANK		Water	50	ml	50	1	1	1								ICAP	
QC220725	BS		Water	50	ml	50	1	1	1								ICAP	
QC220726	BSD		Water	50	ml	50	1	1	1								ICAP	
QC220727	MS	of 166554-002	Water	50	ml	50	1	1	1								ICAP	
QC220728	MSD	of 166554-002	Water	50	ml	50	1	1	1								ICAP	
QC220729	SER	of 166554-002	Water	50	ml	50	1	1	1								ICAP	
QC220938	PDS	of 166554-002	Water	50	ml	50	1	1	1								ICAP	

56

Prep Chemist:

MW for PV

Reviewed By:

MW Date: *7/31/03*

Relinquished By:

MW

Received By:

MW Date: *7/31/03*

07/30/03

Batch# 93290

ICAPP/M 3010

SAMPLE ID		INIT VOL (ML)	Final Vol	FILTERED YES/NO	COMMENTS
D	1166552-001	50.0	50.0	NO	SPICES
↓	002				03SS177 (0.5 mL)
↓	003				03SS178 ↓
A	004				
↓	005				Reagents
↓	006				HNO3 OT BAKER# 405050
D	007				1:1 HCL OT BAKER# 412022/012303
↓	008				
A	009				
G	1166554-001				
↓	002 (HSS)				
A	1166560-002				
↓	1166561-003				
↓	1166561-008				
↓	1166599-014				
↓	1166604-001				
	HSS ac 220724				
✓	BS 220725				
✓	BSD 220726				
✓	MS-1554-02				
✓	MS-1554-02				

Continued on Page

Read and Understood By

Am

7/1/03

Patricia Vergara

Signed

07/30/03

Date

Signed

Date

Method Detection Limit Study for EPA 6010B / 200.7

Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L u

Instrument: MET07
 Matrix : Water
 Partition : All

Study # : 17730
 Study Date: 20-JUN-2003
 Effective : 25-JUN-2003

Batchnum : 82300
 Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikesconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 20.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Bu

Barium			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Diln Fac:	1.000	Analyzed:	07/30/03
Batch#:	83258		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BAPSB15 [0.3]	SAMPLE	166560-001	40	0.47	dry	3%
BAPSB15 [1]	SAMPLE	166560-002	30	0.46	dry	4%
BAPSB11 [2]	SAMPLE	166560-004	69	0.45	dry	8%
BAPSB09 [0.3]	SAMPLE	166560-005	52	0.39	dry	3%
BAPSB09 [1]	SAMPLE	166560-006	30	0.44	dry	3%
BAPSB06 [5.5]	SAMPLE	166560-013	110	0.48	dry	13%
BAPSB01 [4.5] [MSD]	SAMPLE	166560-016	170	0.49	dry	10%
BAPSB01 [5.5]	SAMPLE	166560-017	88	0.54	dry	10%
DUP072503B	SAMPLE	166560-019	170	0.52	dry	18%
BAPSB02 [3]	SAMPLE	166560-020	130	0.46	dry	10%
BAPSB02 [5.5]	SAMPLE	166560-021	96	0.51	dry	18%
	BLANK	QC220611	ND	0.50	as received	

Copper			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Diln Fac:	1.000	Analyzed:	07/30/03
Batch#:	83258		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BAPSB15 [0.3]	SAMPLE	166560-001	6.1	0.47	dry	3%
BAPSB15 [1]	SAMPLE	166560-002	2.6	0.46	dry	4%
BAPSB11 [2]	SAMPLE	166560-004	5.2	0.45	dry	8%
BAPSB09 [0.3]	SAMPLE	166560-005	6.5	0.39	dry	3%
BAPSB09 [1]	SAMPLE	166560-006	5.2	0.44	dry	3%
BAPSB06 [5.5]	SAMPLE	166560-013	8.2	0.48	dry	13%
BAPSB01 [4.5] [MSD]	SAMPLE	166560-016	15	0.49	dry	10%
BAPSB01 [5.5]	SAMPLE	166560-017	8.5	0.54	dry	10%
DUP072503B	SAMPLE	166560-019	18	0.52	dry	18%
BAPSB02 [3]	SAMPLE	166560-020	15	0.46	dry	10%
BAPSB02 [5.5]	SAMPLE	166560-021	6.4	0.51	dry	18%
	BLANK	QC220611	ND	0.50	as received	



Lead			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Diln Fac:	1.000	Analyzed:	07/30/03
Batch#:	83258		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BAPSB15 [0.3]	SAMPLE	166560-001	16	0.14	dry	3%
BAPSB15 [1]	SAMPLE	166560-002	0.23	0.14	dry	4%
BAPSB11 [2]	SAMPLE	166560-004	0.89	0.14	dry	8%
BAPSB09 [0.3]	SAMPLE	166560-005	19	0.12	dry	3%
BAPSB09 [1]	SAMPLE	166560-006	ND	0.13	dry	3%
BAPSB06 [5.5]	SAMPLE	166560-013	4.3	0.14	dry	13%
BAPSB01 [4.5] [MSD]	SAMPLE	166560-016	3.3	0.15	dry	10%
BAPSB01 [5.5]	SAMPLE	166560-017	1.6	0.16	dry	10%
DUP072503B	SAMPLE	166560-019	18	0.16	dry	18%
BAPSB02 [3]	SAMPLE	166560-020	27	0.14	dry	10%
BAPSB02 [5.5]	SAMPLE	166560-021	1.0	0.15	dry	18%
1	BLANK	QC220611	ND	0.15	as received	

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Antimony			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Diln Fac:	1.000	Analyzed:	07/30/03
Batch#:	83258		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BAPSB15 [0.3]	SAMPLE	166560-001	ND	2.8	dry	3%
BAPSB15 [1]	SAMPLE	166560-002	ND	2.7	dry	4%
BAPSB11 [2]	SAMPLE	166560-004	ND	2.7	dry	8%
BAPSB09 [0.3]	SAMPLE	166560-005	ND	2.3	dry	3%
BAPSB09 [1]	SAMPLE	166560-006	ND	2.6	dry	3%
BAPSB06 [5.5]	SAMPLE	166560-013	ND	2.9	dry	13%
BAPSB01 [4.5] [MSD]	SAMPLE	166560-016	ND	2.9	dry	10%
BAPSB01 [5.5]	SAMPLE	166560-017	ND	3.3	dry	10%
DUP072503B	SAMPLE	166560-019	ND	3.1	dry	18%
BAPSB02 [3]	SAMPLE	166560-020	ND	2.8	dry	10%
BAPSB02 [5.5]	SAMPLE	166560-021	ND	3.1	dry	18%
	BLANK	QC220611	ND	3.0	as received	

Zinc			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Diln Fac:	1.000	Analyzed:	07/30/03
Batch#:	83258		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BAPSB15 [0.3]	SAMPLE	166560-001	29	0.93	dry	3%
BAPSB15 [1]	SAMPLE	166560-002	18	0.91	dry	4%
BAPSB11 [2]	SAMPLE	166560-004	24	0.91	dry	8%
BAPSB09 [0.3]	SAMPLE	166560-005	33	0.78	dry	3%
BAPSB09 [1]	SAMPLE	166560-006	22	0.88	dry	3%
BAPSB06 [5.5]	SAMPLE	166560-013	25	0.95	dry	13%
BAPSB01 [4.5] [MSD]	SAMPLE	166560-016	38	0.97	dry	10%
BAPSB01 [5.5]	SAMPLE	166560-017	21	1.1	dry	10%
DUP072503B	SAMPLE	166560-019	73	1.0	dry	18%
BAPSB02 [3]	SAMPLE	166560-020	81	0.92	dry	10%
BAPSB02 [5.5]	SAMPLE	166560-021	14	1.0	dry	18%
1	BLANK	QC220611	ND	1.0	as received	

Barium			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83258
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220612	100.0	91.00	91	75-125		
BSD	QC220613	100.0	91.00	91	75-125	0	30

Copper			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83258
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220612	12.50	11.95	96	75-125		
BSD	QC220613	12.50	12.00	96	75-125	0	30

Lead			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83258
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220612	100.0	89.00	89	75-125		
BSD	QC220613	100.0	90.50	91	75-125	2	30

Antimony			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83258
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220612	100.0	97.00	97	75-125		
BSD	QC220613	100.0	98.00	98	75-125	1	30

Zinc			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83258
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220612	25.00	21.95	88	75-125		
BSD	QC220613	25.00	22.05	88	75-125	0	30

Barium			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB01[4.5] [MSD]	Batch#:	83258
MSS Lab ID:	166560-016	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220614	165.5	102.9	252.1	84	75-125	10%		
MSD	QC220615		88.53	252.3	98	75-125	10%	6	30

Copper			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB01[4.5] [MSD]	Batch#:	83258
MSS Lab ID:	166560-016	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220614	15.04	12.86	26.18	87	75-125	10%		
MSD	QC220615		11.07	26.07	100	75-125	10%	6	30

Lead			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB01 [4.5] [MSD]	Batch#:	83258
MSS Lab ID:	166560-016	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220614	3.290	102.9	87.96	82	75-125	10%		
MSD	QC220615		88.53	75.70	82	75-125	10%	1	30

Antimony			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB01[4.5] [MSD]	Batch#:	83258
MSS Lab ID:	166560-016	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220614	0.7763	102.9	13.79	13 *	75-125	10%		
MSD	QC220615		88.53	14.08	15 *	75-125	10%	17	30

Zinc			
Lab #:	166560	Location:	Presidio Firing Range
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB01[4.5] [MSD]	Batch#:	83258
MSS Lab ID:	166560-016	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220614	38.04	25.72	57.10	74 *	75-125	10%		
MSD	QC220615		22.13	57.10	86	75-125	10%	6	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285009	Seqnum : 73304285010
Filename : tr211802	Filename : tr211803
IDF : 1.0	IDF : 5.0
PDF : 43.66812	PDF : 43.66812
Run type : MSS	Run type : SER
Samplenum: 166560-016	Samplenum: QC220616
Matrix : Soil	Matrix : Soil
Batchnum : 83258	Batchnum : 83258
Inj : 30-JUL-2003 08:16	Inj : 30-JUL-2003 08:20
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.62	ND	13.1	--	10	u
Arsenic	3.00	0.218	3.12	1.09	4	10	u
Barium	149	0.437	145	2.18	3	10	u
Beryllium	0.314	0.0873	ND	0.437	--	10	u
Cadmium	1.97	0.218	1.92	1.09	--	10	u
Calcium	3010	21.8	3090	109	3	10	u
Chromium	67.7	0.437	68.6	2.18	1	10	u
Cobalt	10.7	0.873	10.8	4.37	0	10	u
Copper	13.5	0.437	13.6	2.18	0	10	u
Iron	*** usable MSS data not found ***						
Lead	2.96	0.131	2.93	0.655	1	10	ab*
Magnesium	2310	21.8	2380	109	3	10	u
Manganese	432	0.437	430	2.18	0	10	u
Molybdenum	ND	0.873	ND	4.37	--	10	u
Nickel	52.0	0.873	53.9	4.37	4	10	u
Selenium	ND	0.218	ND	1.09	--	10	u
Silver	ND	0.218	ND	1.09	--	10	u
Thallium	ND	0.218	ND	1.09	--	10	u
Vanadium	48.0	0.437	47.6	2.18	1	10	u
Zinc	34.2	0.873	45.6	4.37	33	10	fu
Titanium	296	0.437	290	2.18	2	10	u

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285009	Seqnum : 73304285013
Filename : tr211802	Filename : tr211806
IDF : 1.0	IDF : 1.0
PDF : 43.66812	PDF : 43.66812
Run type : MSS	Run type : PDS
Samplenum: 166560-016	Samplenum: QC220628
Matrix : Soil	Matrix : Soil
Batchnum : 83258	Batchnum : 83258
Inj : 30-JUL-2003 08:16	Inj : 30-JUL-2003 08:34
Units : ug/L	

Analyte	MSS	Spike Amt	PDS	%Rec	Lim	%Rec	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	16.00	2000	2060	102	15-123		u
Arsenic	68.80	1000	1010	94	40-126		u
Barium	3410	2000	5260	93	19-138		u
Beryllium	7.190	50	57.40	100	58-120		u
Cadmium	45.00	200	224.0	90	47-120		u
Calcium	68900	20000	89110	101	16-150		u
Chromium	1550	2000	3420	94	35-131		u
Cobalt	246.0	500	711.0	93	39-120		u
Copper	310.0	250	564.0	102	32-150		u
Iron	*** usable MSS data not found ***						
Lead	67.80	2000	1950	94	23-137		u
Magnesium	52840	20000	71550	94	20-150		u
Manganese	9890	500	10200	62	15-150		:u
Molybdenum	6.020	400	402.0	99	28-120		u
Nickel	1190	500	1630	88	32-136		u
Selenium	3.960	1000	896.0	89	38-120		u
Silver	ND	200	198.0	99	55-120		u
Thallium	ND	1000	890.0	89	50-120		u
Vanadium	1100	500	1570	94	25-130		u
Zinc	784.0	500	1220	87	20-147		u
Titanium	6770	1000	7650	88	15-150		:u

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 07/30/03 07:12:39

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.090	.001	.000
SDev	.000	.001	.000	.000	.001	.000	.000
%RSD	4.13	93.6	362.	37.3	1.18	31.8	9.96
#1	-.001	.001	-.000	.000	-.089	.001	.000
#2	-.001	.000	.000	.001	-.090	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.001	.000	.000	.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	92.6	5.31	51.5	239.	14.2	47.2	6.28
#1	-.000	-.003	.000	-.000	.000	.000	-.002
#2	-.000	-.003	.001	.001	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.005	.0272	-.0066
SDev	.000	.000	.000	.000	.000	.0002	.0000
%RSD	17.3	189.	91.7	73.6	.581	.7192	.2572
#1	.001	.000	-.001	.000	.005	.0271	-.0066
#2	.001	-.000	-.000	.000	.005	.0274	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0000	.000	.058			
SDev	.0000	.0000	.000	.000			
%RSD	4.700	35.44	.094	.052			
#1	-.0007	.0000	.000	.058			
#2	-.0006	.0001	.000	.058			

Method: 6010B Standard: cst hi

Run Time: 07/30/03 07:18:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.094	.037	5.34	.637	.215	.050
SDev	.007	.004	.000	.01	.001	.001	.000
%RSD	4.96	4.29	.422	.196	.175	.220	.058
#1	.145	.091	.037	5.35	.637	.215	.050
#2	.155	.097	.037	5.34	.636	.214	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.138	.128	.151	.150	.262	.350	.039
SDev	.000	.001	.000	.001	.001	.000	.001
%RSD	.168	.474	.125	.321	.480	.011	2.33
#1	.138	.129	.151	.150	.261	.350	.039
#2	.138	.128	.151	.150	.263	.350	.040
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.048	.078	.026	.205	.031	.0556	.0639
SDev	.001	.000	.001	.000	.000	.0002	.0001
%RSD	2.02	.340	2.59	.132	.058	.4210	.0753
#1	.049	.078	.025	.205	.031	.0557	.0639
#2	.047	.078	.026	.205	.031	.0554	.0639
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0256	.0387	.223	1.95			
SDev	.0001	.0001	.000	.00			
%RSD	.2434	.3114	.102	.026			
#1	.0257	.0388	.223	1.95			
#2	.0256	.0386	.222	1.95			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6592.54	5.05393	07/30/03 07:18:23
Sb206A	206.832	Multiple	Standards	10503.1	-8.85296	07/30/03 07:18:23
As1890	189.042	Multiple	Standards	13430.1	1.32147	07/30/03 07:18:23
Ba4934	493.409	Multiple	Standards	187.197	-.097395	07/30/03 07:18:23
Be3130	313.042	Multiple	Standards	133.019	11.9294	07/30/03 07:18:23
Cd2265	226.502	Multiple	Standards	467.049	-.317073	07/30/03 07:18:23
Cr2677	267.716	Multiple	Standards	3987.61	-.938947	07/30/03 07:18:23
Co2286	228.616	Multiple	Standards	3619.59	.574526	07/30/03 07:18:23
Cu3247	324.754	Multiple	Standards	1526.99	3.98917	07/30/03 07:18:23
Pb2203	220.351	Multiple	Standards	3328.36	-2.00525	07/30/03 07:18:23
Pb220A	220.352	Multiple	Standards	3312.66	-.889815	07/30/03 07:18:23
Mo2020	202.030	Multiple	Standards	3816.88	-1.25409	07/30/03 07:18:23
Ni2316	231.604	Multiple	Standards	1426.89	-.164114	07/30/03 07:18:23
Se1960	196.021	Multiple	Standards	12182.5	19.8127	07/30/03 07:18:23
Se196A	196.022	Multiple	Standards	10647.7	-12.3594	07/30/03 07:18:23
Ag3280	328.068	Multiple	Standards	1277.74	-.041942	07/30/03 07:18:23
Tl1908	190.864	Multiple	Standards	19169.6	7.76424	07/30/03 07:18:23
V_2924	292.402	Multiple	Standards	2437.37	-.333773	07/30/03 07:18:23
Zn2138	213.856	Multiple	Standards	3949.56	-18.8368	07/30/03 07:18:23
Al3082	308.215	Multiple	Standards	35764.8	-974.098	07/30/03 07:18:23
Ca3179	317.933	Multiple	Standards	28356.5	187.723	07/30/03 07:18:23
Fe2714	271.441	Multiple	Standards	39705.4	25.6544	07/30/03 07:18:23
Mg2790	279.079	Multiple	Standards	51700.0	-2.26513	07/30/03 07:18:23
Mn2576	257.610	Multiple	Standards	449.880	-.098536	07/30/03 07:18:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Ti3349	334.941	Multiple	Standards	527.417	-30.8119	07/30/03 07:18:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285001

Run Name :
Filename : tr211794

Injected : 30-JUL-2003 07:25
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	986.8000	ug/L	-1	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	498.0000	ug/L	0	5	
Barium	1000.000	989.0000	ug/L	-1	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2020.000	ug/L	1	5	
Chromium	200.0000	200.0000	ug/L	0	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	1004.000	ug/L	0	5	
Lead	500.0000	501.0000	ug/L	0	5	
Magnesium	2000.000	2003.000	ug/L	0	5	
Manganese	100.0000	99.80000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	500.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	997.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285002

Run Name :
Filename : tr211795

Injected : 30-JUL-2003 07:33
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	462.4000	ug/L	-8	10		
Antimony	500.0000	450.0000	ug/L	-10	10		
Arsenic	250.0000	250.0000	ug/L	0	10		
Barium	500.0000	487.0000	ug/L	-3	10		
Beryllium	50.00000	51.30000	ug/L	3	10		
Cadmium	50.00000	48.60000	ug/L	-3	10		
Calcium	1000.000	1038.000	ug/L	4	10		
Chromium	100.0000	100.0000	ug/L	0	10		
Cobalt	250.0000	248.0000	ug/L	-1	10		
Copper	100.0000	102.0000	ug/L	2	10		
Iron	500.0000	505.5000	ug/L	1	10		
Lead	250.0000	235.0000	ug/L	-6	10		
Magnesium	1000.000	1027.000	ug/L	3	10		
Manganese	50.00000	49.90000	ug/L	0	10		
Molybdenum	500.0000	481.0000	ug/L	-4	10		
Nickel	250.0000	252.0000	ug/L	1	10		
Selenium	250.0000	240.0000	ug/L	-4	10		
Silver	50.00000	49.00000	ug/L	-2	10		
Thallium	250.0000	244.0000	ug/L	-2	10		
Titanium	500.0000	506.0000	ug/L	1	10		
Vanadium	250.0000	249.0000	ug/L	0	10		
Zinc	50.00000	50.30000	ug/L	1	10		

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285004

Run Name :
Filename : tr211797

Injected : 30-JUL-2003 07:41
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	107.1000	ug/L	7	50		
Antimony	60.00000	60.40000	ug/L	1	50		
Arsenic	5.000000	4.290000	ug/L	-14	50		
Barium	10.00000	9.850000	ug/L	-2	50		
Beryllium	2.000000	2.160000	ug/L	8	50		
Cadmium	5.000000	4.830000	ug/L	-3	50		
Chromium	10.00000	9.680000	ug/L	-3	50		
Cobalt	20.00000	19.60000	ug/L	-2	50		
Copper	10.00000	11.20000	ug/L	12	50		
Iron	100.0000	107.8000	ug/L	8	50		
Lead	3.000000	1.720000	ug/L	-43	50		
Manganese	10.00000	9.910000	ug/L	-1	50		
Molybdenum	20.00000	20.10000	ug/L	1	50		
Nickel	20.00000	20.30000	ug/L	2	50		
Selenium	5.000000	3.540000	ug/L	-29	50		
Silver	5.000000	4.910000	ug/L	-2	50		
Thallium	5.000000	5.670000	ug/L	13	50		
Vanadium	10.00000	10.30000	ug/L	3	50		
Zinc	20.00000	20.50000	ug/L	3	50		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285014

Run Name :
Filename : tr211807

Injected : 30-JUL-2003 08:45
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	458.0000	ug/L	-8		10	
Antimony		500.0000	466.0000	ug/L	-7		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	494.0000	ug/L	-1		10	
Beryllium		50.00000	50.20000	ug/L	0		10	
Cadmium		50.00000	49.00000	ug/L	-2		10	
Calcium		1000.000	1031.000	ug/L	3		10	
Chromium		100.0000	99.70000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	506.2000	ug/L	1		10	
Lead		250.0000	251.0000	ug/L	0		10	
Magnesium		1000.000	1009.000	ug/L	1		10	
Manganese		50.00000	49.70000	ug/L	-1		10	
Molybdenum		500.0000	499.0000	ug/L	0		10	
Nickel		250.0000	246.0000	ug/L	-2		10	
Selenium		250.0000	243.0000	ug/L	-3		10	
Silver		50.00000	50.40000	ug/L	1		10	
Thallium		250.0000	237.0000	ug/L	-5		10	
Titanium		500.0000	510.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	50.30000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285026

Run Name :
Filename : tr211819

Injected : 30-JUL-2003 09:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	483.3000	ug/L	-3	10	
Antimony		500.0000	469.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	50.50000	ug/L	1	10	
Cadmium		50.00000	48.00000	ug/L	-4	10	
Calcium		1000.000	1053.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	496.2000	ug/L	-1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1023.000	ug/L	2	10	
Manganese		50.00000	49.20000	ug/L	-2	10	
Molybdenum		500.0000	498.0000	ug/L	0	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	50.80000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285039

Run Name :
Filename : tr211832

Injected : 30-JUL-2003 11:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	769.0000	ug/L	3	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1514.000	ug/L	1	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	371.0000	ug/L	-1	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	800.4000	ug/L	7	10	
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1523.000	ug/L	2	10	
Manganese		75.00000	74.40000	ug/L	-1	10	
Molybdenum		750.0000	782.0000	ug/L	4	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	380.0000	ug/L	1	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	759.0000	ug/L	1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	74.90000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5	10	
Antimony		500.0000	465.0000	ug/L	-7	10	
Arsenic		250.0000	266.0000	ug/L	6	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.00000	ug/L	2	10	
Cadmium		50.00000	49.30000	ug/L	-1	10	
Calcium		1000.000	988.1000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	509.2000	ug/L	2	10	
Lead		250.0000	259.0000	ug/L	4	10	
Magnesium		1000.000	1012.000	ug/L	1	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	526.0000	ug/L	5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	263.0000	ug/L	5	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5		10	
Antimony		500.0000	465.0000	ug/L	-7		10	
Arsenic		250.0000	266.0000	ug/L	6		10	
Barium		500.0000	496.0000	ug/L	-1		10	
Beryllium		50.00000	51.00000	ug/L	2		10	
Cadmium		50.00000	49.30000	ug/L	-1		10	
Calcium		1000.000	988.1000	ug/L	-1		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	509.2000	ug/L	2		10	
Lead		250.0000	259.0000	ug/L	4		10	
Magnesium		1000.000	1012.000	ug/L	1		10	
Manganese		50.00000	48.80000	ug/L	-2		10	
Molybdenum		500.0000	526.0000	ug/L	5		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	263.0000	ug/L	5		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	248.0000	ug/L	-1		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	246.0000	ug/L	-2		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285063

Run Name :
Filename : tr211858

Injected : 30-JUL-2003 12:49
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	243.6000	ug/L	-3		10	
Antimony		250.0000	258.0000	ug/L	3		10	
Arsenic		125.0000	137.0000	ug/L	10		10	
Barium		250.0000	255.0000	ug/L	2		10	
Beryllium		25.00000	25.90000	ug/L	4		10	
Cadmium		25.00000	25.50000	ug/L	2		10	
Calcium		500.0000	494.2000	ug/L	-1		10	
Chromium		50.00000	51.20000	ug/L	2		10	
Cobalt		125.0000	126.0000	ug/L	1		10	
Copper		50.00000	51.20000	ug/L	2		10	
Iron		250.0000	265.3000	ug/L	6		10	
Lead		125.0000	120.0000	ug/L	-4		10	
Magnesium		500.0000	521.4000	ug/L	4		10	
Manganese		25.00000	24.60000	ug/L	-2		10	
Molybdenum		250.0000	248.0000	ug/L	-1		10	
Nickel		125.0000	132.0000	ug/L	6		10	
Selenium		125.0000	129.0000	ug/L	3		10	
Silver		25.00000	24.50000	ug/L	-2		10	
Thallium		125.0000	124.0000	ug/L	-1		10	
Titanium		250.0000	261.0000	ug/L	4		10	
Vanadium		125.0000	124.0000	ug/L	-1		10	
Zinc		25.00000	27.60000	ug/L	10		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285075

Run Name :
Filename : tr211870

Injected : 30-JUL-2003 13:52
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	795.1000	ug/L	6		10	
Antimony		750.0000	744.0000	ug/L	-1		10	
Arsenic		375.0000	409.0000	ug/L	9		10	
Barium		750.0000	764.0000	ug/L	2		10	
Beryllium		75.00000	76.20000	ug/L	2		10	
Cadmium		75.00000	77.90000	ug/L	4		10	
Calcium		1500.000	1527.000	ug/L	2		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	373.0000	ug/L	-1		10	
Copper		150.0000	145.0000	ug/L	-3		10	
Iron		750.0000	760.4000	ug/L	1		10	
Lead		375.0000	367.0000	ug/L	-2		10	
Magnesium		1500.000	1513.000	ug/L	1		10	
Manganese		75.00000	70.50000	ug/L	-6		10	
Molybdenum		750.0000	755.0000	ug/L	1		10	
Nickel		375.0000	395.0000	ug/L	5		10	
Selenium		375.0000	392.0000	ug/L	5		10	
Silver		75.00000	72.50000	ug/L	-3		10	
Thallium		375.0000	390.0000	ug/L	4		10	
Titanium		750.0000	754.0000	ug/L	1		10	
Vanadium		375.0000	361.0000	ug/L	-4		10	
Zinc		75.00000	77.90000	ug/L	4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285087

Run Name :
Filename : tr211882

Injected : 30-JUL-2003 14:42
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	526.1000	ug/L	5	10	
Antimony		500.0000	463.0000	ug/L	-7	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	51.40000	ug/L	3	10	
Cadmium		50.00000	48.40000	ug/L	-3	10	
Calcium		1000.000	1009.000	ug/L	1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	526.7000	ug/L	5	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	51.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285099

Run Name :
Filename : tr211894

Injected : 30-JUL-2003 15:28
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	770.7000	ug/L	3		10	
Antimony		750.0000	773.0000	ug/L	3		10	
Arsenic		375.0000	391.0000	ug/L	4		10	
Barium		750.0000	744.0000	ug/L	-1		10	
Beryllium		75.00000	77.60000	ug/L	3		10	
Cadmium		75.00000	74.60000	ug/L	-1		10	
Calcium		1500.000	1468.000	ug/L	-2		10	
Chromium		150.0000	152.0000	ug/L	1		10	
Cobalt		375.0000	375.0000	ug/L	0		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	785.9000	ug/L	5		10	
Lead		375.0000	365.0000	ug/L	-3		10	
Magnesium		1500.000	1528.000	ug/L	2		10	
Manganese		75.00000	74.30000	ug/L	-1		10	
Molybdenum		750.0000	737.0000	ug/L	-2		10	
Nickel		375.0000	382.0000	ug/L	2		10	
Selenium		375.0000	373.0000	ug/L	-1		10	
Silver		75.00000	75.50000	ug/L	1		10	
Thallium		375.0000	365.0000	ug/L	-3		10	
Titanium		750.0000	759.0000	ug/L	1		10	
Vanadium		375.0000	371.0000	ug/L	-1		10	
Zinc		75.00000	76.10000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285111

Run Name :
Filename : tr211906

Injected : 30-JUL-2003 16:15
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	523.1000	ug/L	5	10	
Antimony		500.0000	473.0000	ug/L	-5	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	504.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	548.3000	ug/L	10	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.60000	ug/L	-1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.10000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285111

Run Name :
Filename : tr211906

Injected : 30-JUL-2003 16:15
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	523.1000	ug/L	5	10	
Antimony		500.0000	473.0000	ug/L	-5	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	504.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	548.3000	ug/L	10	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.60000	ug/L	-1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.10000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285123

Run Name :
Filename : tr211918

Injected : 30-JUL-2003 17:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	510.4000	ug/L	2	10	
Antimony		500.0000	467.0000	ug/L	-7	10	
Arsenic		250.0000	261.0000	ug/L	4	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	52.00000	ug/L	4	10	
Cadmium		50.00000	51.00000	ug/L	2	10	
Calcium		1000.000	895.7000	ug/L	-10	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	98.70000	ug/L	-1	10	
Iron		500.0000	519.5000	ug/L	4	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1025.000	ug/L	3	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	53.50000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285130

Run Name :
Filename : tr211925

Injected : 30-JUL-2003 17:45
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	491.5000	ug/L	-2	10	
Antimony		500.0000	527.0000	ug/L	5	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	993.8000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	506.2000	ug/L	1	10	
Lead		250.0000	238.0000	ug/L	-5	10	
Magnesium		1000.000	1016.000	ug/L	2	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	487.0000	ug/L	-3	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	50.70000	ug/L	1	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	507.0000	ug/L	1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	50.50000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285139

Run Name :
Filename : tr211934

Injected : 30-JUL-2003 18:28
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	810.5000	ug/L	8		10	
Antimony		750.0000	900.0000	ug/L	20		10	1 ***
Arsenic		375.0000	390.0000	ug/L	4		10	
Barium		750.0000	757.0000	ug/L	1		10	
Beryllium		75.00000	78.30000	ug/L	4		10	
Cadmium		75.00000	76.80000	ug/L	2		10	
Calcium		1500.000	1491.000	ug/L	-1		10	
Chromium		150.0000	160.0000	ug/L	7		10	
Cobalt		375.0000	378.0000	ug/L	1		10	
Copper		150.0000	154.0000	ug/L	3		10	
Iron		750.0000	894.4000	ug/L	19		10	1 ***
Lead		375.0000	364.0000	ug/L	-3		10	
Magnesium		1500.000	1540.000	ug/L	3		10	
Manganese		75.00000	75.50000	ug/L	1		10	
Molybdenum		750.0000	735.0000	ug/L	-2		10	
Nickel		375.0000	387.0000	ug/L	3		10	
Selenium		375.0000	375.0000	ug/L	0		10	
Silver		75.00000	75.90000	ug/L	1		10	
Thallium		375.0000	372.0000	ug/L	-1		10	
Titanium		750.0000	770.0000	ug/L	3		10	
Vanadium		375.0000	378.0000	ug/L	1		10	
Zinc		75.00000	80.20000	ug/L	7		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285152

Run Name :
Filename : tr211947

Injected : 30-JUL-2003 19:21
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	598.8000	ug/L	20	10	1 ***
Antimony		500.0000	530.0000	ug/L	6	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	519.0000	ug/L	4	10	
Beryllium		50.00000	54.20000	ug/L	8	10	
Cadmium		50.00000	52.80000	ug/L	6	10	
Calcium		1000.000	955.3000	ug/L	-4	10	
Chromium		100.0000	110.0000	ug/L	10	10	
Cobalt		250.0000	259.0000	ug/L	4	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	635.9000	ug/L	27	10	1 ***
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1050.000	ug/L	5	10	
Manganese		50.00000	50.90000	ug/L	2	10	
Molybdenum		500.0000	498.0000	ug/L	0	10	
Nickel		250.0000	266.0000	ug/L	6	10	
Selenium		250.0000	259.0000	ug/L	4	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	259.0000	ug/L	4	10	
Titanium		500.0000	531.0000	ug/L	6	10	
Vanadium		250.0000	256.0000	ug/L	2	10	
Zinc		50.00000	53.80000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285161

Run Name :
Filename : tr211956

Injected : 30-JUL-2003 20:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	833.3000	ug/L	11	10	1 ***
Antimony		750.0000	918.0000	ug/L	22	10	1 ***
Arsenic		375.0000	404.0000	ug/L	8	10	
Barium		750.0000	774.0000	ug/L	3	10	
Beryllium		75.00000	79.40000	ug/L	6	10	
Cadmium		75.00000	79.70000	ug/L	6	10	
Calcium		1500.000	1389.000	ug/L	-7	10	
Chromium		150.0000	160.0000	ug/L	7	10	
Cobalt		375.0000	384.0000	ug/L	2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	868.0000	ug/L	16	10	1 ***
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1541.000	ug/L	3	10	
Manganese		75.00000	74.00000	ug/L	-1	10	
Molybdenum		750.0000	747.0000	ug/L	0	10	
Nickel		375.0000	398.0000	ug/L	6	10	
Selenium		375.0000	387.0000	ug/L	3	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	379.0000	ug/L	1	10	
Titanium		750.0000	772.0000	ug/L	3	10	
Vanadium		375.0000	376.0000	ug/L	0	10	
Zinc		75.00000	81.20000	ug/L	8	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285003
Filename: tr211796

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 30-JUL-2003 07:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2540]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[25.520]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.5800]		10.00000	ug/L	<	RL
Iron	[10.500]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.4260]		500.0000	ug/L	<	RL
Manganese	[0.0660]		10.00000	ug/L	<	RL
Molybdenum	[5.1800]		20.00000	ug/L	<	RL
Nickel	[0.5370]		20.00000	ug/L	<	RL
Selenium	[1.7300]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[0.5540]		5.000000	ug/L	<	RL
Titanium	[1.9400]		10.00000	ug/L	<	RL
Vanadium	[0.1210]		10.00000	ug/L	<	RL
Zinc	[0.5080]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285015
Filename: tr211808

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 08:52

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[10.300]		60.00000	ug/L	<	RL
Arsenic	[1.5000]		5.000000	ug/L	<	RL
Barium	[0.4090]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[81.470]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.1380]		10.00000	ug/L	<	RL
Copper	[3.0500]		10.00000	ug/L	<	RL
Iron	[12.610]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[18.550]		500.0000	ug/L	<	RL
Manganese	[0.3470]		10.00000	ug/L	<	RL
Molybdenum	[9.0000]		20.00000	ug/L	<	RL
Nickel	[0.2410]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.1070]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.4600]		10.00000	ug/L	<	RL
Vanadium	[0.1750]		10.00000	ug/L	<	RL
Zinc	[0.4280]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285027
Filename: tr211820

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 09:50

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[3.9500]		60.00000	ug/L	<	RL
Arsenic	[0.9970]		5.000000	ug/L	<	RL
Barium	[0.2090]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.2580]		5.000000	ug/L	<	RL
Calcium	[81.480]		500.0000	ug/L	<	RL
Chromium	[0.2080]		10.00000	ug/L	<	RL
Cobalt	[0.1850]		10.00000	ug/L	<	RL
Copper	[3.6200]		10.00000	ug/L	<	RL
Iron	[4.3180]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.6090]		500.0000	ug/L	<	RL
Manganese	[0.1070]		10.00000	ug/L	<	RL
Molybdenum	[3.6600]		20.00000	ug/L	<	RL
Nickel	[0.3950]		20.00000	ug/L	<	RL
Selenium	[1.6500]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.3500]		10.00000	ug/L	<	RL
Vanadium	[0.2530]		10.00000	ug/L	<	RL
Zinc	[0.7150]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285040
Filename: tr211833

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 11:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[34.180]	100.0000	ug/L	<RL		
Antimony	[0.7180]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.4080]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[66.460]	500.0000	ug/L	<RL		
Chromium	[0.0870]	10.00000	ug/L	<RL		
Cobalt	[0.1470]	10.00000	ug/L	<RL		
Copper	[3.0500]	10.00000	ug/L	<RL		
Iron	[19.140]	100.0000	ug/L	<RL		
Lead	[0.8950]	3.000000	ug/L	<RL		
Magnesium	[9.9080]	500.0000	ug/L	<RL		
Manganese	[0.3020]	10.00000	ug/L	<RL		
Molybdenum	[6.6600]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[3.8300]	10.00000	ug/L	<RL		
Vanadium	[0.1110]	10.00000	ug/L	<RL		
Zinc	[1.1000]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[3.5900]	5.000000	ug/L	<RL		
Barium	[0.0970]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0570]	5.000000	ug/L	<RL		
Calcium	[43.950]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.0200]	10.00000	ug/L	<RL		
Iron	[4.0180]	100.0000	ug/L	<RL		
Lead	[0.3990]	3.000000	ug/L	<RL		
Magnesium	[2.2740]	500.0000	ug/L	<RL		
Manganese	[0.0830]	10.00000	ug/L	<RL		
Molybdenum	[1.4800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.7100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[3.2700]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.3000]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.5900]	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0570]	5.000000	ug/L	<RL	
Calcium	[43.950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.0200]	10.00000	ug/L	<RL	
Iron	[4.0180]	100.0000	ug/L	<RL	
Lead	[0.3990]	3.000000	ug/L	<RL	
Magnesium	[2.2740]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[1.4800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.7100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285064
Filename: tr211859

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 13:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[6.4490]	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1090]	10.00000	ug/L	<	RL
Beryllium	[0.1500]	2.000000	ug/L	<	RL
Cadmium	[0.1500]	5.000000	ug/L	<	RL
Calcium	[19.130]	500.0000	ug/L	<	RL
Chromium	[0.2170]	10.00000	ug/L	<	RL
Cobalt	[0.3870]	10.00000	ug/L	<	RL
Copper	[0.6960]	10.00000	ug/L	<	RL
Iron	[14.640]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[10.730]	500.0000	ug/L	<	RL
Manganese	[0.1740]	10.00000	ug/L	<	RL
Molybdenum	[1.1500]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[3.5800]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.5800]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285076
Filename: tr211871

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:01

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[49.290]	100.0000	ug/L	<RL	
Antimony	[8.2200]	60.00000	ug/L	<RL	
Arsenic	[0.6290]	5.000000	ug/L	<RL	
Barium	[0.4790]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.2840]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.4510]	10.00000	ug/L	<RL	
Cobalt	[0.3240]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[11.880]	100.0000	ug/L	<RL	
Lead	[0.6550]	3.000000	ug/L	<RL	
Magnesium	[6.5550]	500.0000	ug/L	<RL	
Manganese	[0.2320]	10.00000	ug/L	<RL	
Molybdenum	[11.600]	20.00000	ug/L	<RL	
Nickel	[0.6950]	20.00000	ug/L	<RL	
Selenium	[2.8400]	5.000000	ug/L	<RL	
Silver	[0.1400]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.2500]	10.00000	ug/L	<RL	
Vanadium	[0.0230]	10.00000	ug/L	<RL	
Zinc	[2.1600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285088
Filename: tr211883

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:49

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[53.270]	100.0000	ug/L	<RL		
Antimony	[10.600]	60.00000	ug/L	<RL		
Arsenic	[1.0000]	5.000000	ug/L	<RL		
Barium	[0.3220]	10.00000	ug/L	<RL		
Beryllium	[0.7420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.1500]	10.00000	ug/L	<RL		
Cobalt	[0.1280]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[17.610]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[9.2400]	500.0000	ug/L	<RL		
Manganese	[0.2460]	10.00000	ug/L	<RL		
Molybdenum	[7.5400]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[5.5200]	10.00000	ug/L	<RL		
Vanadium	[0.2930]	10.00000	ug/L	<RL		
Zinc	[1.7800]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285100
Filename: tr211895

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 15:33

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[75.490]	100.0000	ug/L	<RL	
Antimony	[4.7200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.3020]	10.00000	ug/L	<RL	
Beryllium	[1.4300]	2.000000	ug/L	<RL	
Cadmium	[0.0240]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1820]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.330]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.5880]	500.0000	ug/L	<RL	
Manganese	[0.3470]	10.00000	ug/L	<RL	
Molybdenum	[8.5100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1560]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.8700]	10.00000	ug/L	<RL	
Vanadium	[0.2710]	10.00000	ug/L	<RL	
Zinc	[2.0700]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285112
Filename: tr211907

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 16:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[1.8800]		60.00000	ug/L	<	RL
Arsenic	[0.9160]		5.000000	ug/L	<	RL
Barium	[0.1680]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.0650]		10.00000	ug/L	<	RL
Cobalt	[0.0780]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[15.940]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.6550]		500.0000	ug/L	<	RL
Manganese	[0.2490]		10.00000	ug/L	<	RL
Molybdenum	[3.0700]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.0720]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.0300]		10.00000	ug/L	<	RL
Vanadium	[0.1980]		10.00000	ug/L	<	RL
Zinc	[2.2300]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285124
Filename: tr211919

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 17:10

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[23.980]	100.0000	ug/L	<RL		
Antimony	[6.4200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.4080]	10.00000	ug/L	<RL		
Beryllium	[0.9050]	2.000000	ug/L	<RL		
Cadmium	[0.0200]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2260]	10.00000	ug/L	<RL		
Cobalt	[0.1660]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[22.320]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[11.810]	500.0000	ug/L	<RL		
Manganese	[0.4560]	10.00000	ug/L	<RL		
Molybdenum	[8.6800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.3500]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.8400]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[2.7300]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285131
Filename: tr211926

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 17:58

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[23.130]	100.0000	ug/L	<RL	
Antimony	[2.4200]	60.00000	ug/L	<RL	
Arsenic	[0.6330]	5.000000	ug/L	<RL	
Barium	[0.0660]	10.00000	ug/L	<RL	
Beryllium	[1.0300]	2.000000	ug/L	<RL	
Cadmium	[0.2060]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2170]	10.00000	ug/L	<RL	
Cobalt	[0.1640]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.8300]	20.00000	ug/L	<RL	
Nickel	[0.1140]	20.00000	ug/L	<RL	
Selenium	[2.7200]	5.000000	ug/L	<RL	
Silver	[1.0700]	5.000000	ug/L	<RL	
Thallium	6.860000	5.000000	ug/L	<RL	d ***
Titanium	[0.7780]	10.00000	ug/L	<RL	
Vanadium	[0.5260]	10.00000	ug/L	<RL	
Zinc	[0.3460]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285141
Filename: tr211936

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 18:40

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[45.670]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.2410]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.7200]	2.000000	ug/L	<RL	
Cadmium	[0.0610]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.0800]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[62.740]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.2518]	500.0000	ug/L	<RL	
Manganese	[0.2080]	10.00000	ug/L	<RL	
Molybdenum	[0.7470]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.7700]	5.000000	ug/L	<RL	
Silver	[0.8620]	5.000000	ug/L	<RL	
Thallium	[2.2000]	5.000000	ug/L	<RL	
Titanium	[1.2800]	10.00000	ug/L	<RL	
Vanadium	[0.1290]	10.00000	ug/L	<RL	
Zinc	[0.7160]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285154
Filename: tr211949

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 19:32

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[79.610]	100.0000	ug/L	<RL	
Antimony	[2.5700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	2.830000	2.000000	ug/L	<RL	d ***
Cadmium	[0.0240]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.5600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[77.620]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.3220]	10.00000	ug/L	<RL	
Molybdenum	[0.5390]	20.00000	ug/L	<RL	
Nickel	[0.1470]	20.00000	ug/L	<RL	
Selenium	[1.0000]	5.000000	ug/L	<RL	
Silver	[0.8420]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6800]	10.00000	ug/L	<RL	
Vanadium	[0.3660]	10.00000	ug/L	<RL	
Zinc	[1.3200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285163
Filename: tr211958

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 20:12

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	111.2000	100.0000	ug/L	<RL	d ***
Antimony	[6.9500]	60.00000	ug/L	<RL	
Arsenic	[2.3600]	5.000000	ug/L	<RL	
Barium	[0.0370]	10.00000	ug/L	<RL	
Beryllium	3.680000	2.000000	ug/L	<RL	d ***
Cadmium	[0.1040]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.9500]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[87.110]	100.0000	ug/L	<RL	
Lead	[0.4690]	3.000000	ug/L	<RL	
Magnesium	[2.7810]	500.0000	ug/L	<RL	
Manganese	[0.3510]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.0110]	20.00000	ug/L	<RL	
Selenium	5.730000	5.000000	ug/L	<RL	d ***
Silver	[0.7730]	5.000000	ug/L	<RL	
Thallium	5.410000	5.000000	ug/L	<RL	d ***
Titanium	[3.1600]	10.00000	ug/L	<RL	
Vanadium	[0.7500]	10.00000	ug/L	<RL	
Zinc	[1.6500]	20.00000	ug/L	<RL	

d=blank contam/missing

Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285005

Run Name :
Filename : tr211798

Injected : 30-JUL-2003 07:55
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	510900.0	ug/L	2			
Antimony	500.0000	467.0000	ug/L	-7	20		
Arsenic	500.0000	528.0000	ug/L	6	20		
Barium	500.0000	495.0000	ug/L	-1	20		
Beryllium	500.0000	516.0000	ug/L	3	20		
Cadmium	1000.000	963.0000	ug/L	-4	20		
Calcium	500000.0	484600.0	ug/L	-3			
Chromium	500.0000	486.0000	ug/L	-3	20		
Cobalt	500.0000	485.0000	ug/L	-3	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	189900.0	ug/L	-5			
Lead	1000.000	876.0000	ug/L	-12	20		
Magnesium	500000.0	527800.0	ug/L	6			
Manganese	500.0000	499.0000	ug/L	0	20		
Molybdenum	500.0000	473.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	497.0000	ug/L	-1	20		
Silver	1000.000	1070.000	ug/L	7	20		
Thallium	500.0000	483.0000	ug/L	-3	20		
Titanium	20000.00	2050.000	ug/L	-90			
Vanadium	500.0000	500.0000	ug/L	0	20		
Zinc	1000.000	1010.000	ug/L	1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 73304285028

Run Name :
Filename : tr211821

Injected : 30-JUL-2003 09:54
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	516100.0	ug/L	3			
Antimony	500.0000	453.0000	ug/L	-9	20		
Arsenic	500.0000	539.0000	ug/L	8	20		
Barium	500.0000	507.0000	ug/L	1	20		
Beryllium	500.0000	520.0000	ug/L	4	20		
Cadmium	1000.000	960.0000	ug/L	-4	20		
Calcium	500000.0	453200.0	ug/L	-9			
Chromium	500.0000	488.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	185100.0	ug/L	-7			
Lead	1000.000	877.0000	ug/L	-12	20		
Magnesium	500000.0	529100.0	ug/L	6			
Manganese	500.0000	491.0000	ug/L	-2	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	512.0000	ug/L	2	20		
Silver	1000.000	1060.000	ug/L	6	20		
Thallium	500.0000	479.0000	ug/L	-4	20		
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	498.0000	ug/L	0	20		
Zinc	1000.000	1020.000	ug/L	2	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285113

Run Name :
Filename : tr211908

Injected : 30-JUL-2003 16:25
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	524600.0	ug/L	5			
Antimony	500.0000	499.0000	ug/L	0	20		
Arsenic	500.0000	548.0000	ug/L	10	20		
Barium	500.0000	518.0000	ug/L	4	20		
Beryllium	500.0000	502.0000	ug/L	0	20		
Cadmium	1000.000	990.0000	ug/L	-1	20		
Calcium	500000.0	450400.0	ug/L	-10			
Chromium	500.0000	499.0000	ug/L	0	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	524.0000	ug/L	5	20		
Iron	200000.0	186100.0	ug/L	-7			
Lead	1000.000	901.0000	ug/L	-10	20		
Magnesium	500000.0	520400.0	ug/L	4			
Manganese	500.0000	490.0000	ug/L	-2	20		
Molybdenum	500.0000	494.0000	ug/L	-1	20		
Nickel	1000.000	1070.000	ug/L	7	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	945.0000	ug/L	-6	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2120.000	ug/L	-89			
Vanadium	500.0000	499.0000	ug/L	0	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285113

Run Name :
Filename : tr211908

Injected : 30-JUL-2003 16:25
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	524600.0	ug/L	5		
Antimony	500.0000	499.0000	ug/L	0	20	
Arsenic	500.0000	548.0000	ug/L	10	20	
Barium	500.0000	518.0000	ug/L	4	20	
Beryllium	500.0000	502.0000	ug/L	0	20	
Cadmium	1000.000	990.0000	ug/L	-1	20	
Calcium	500000.0	450400.0	ug/L	-10		
Chromium	500.0000	499.0000	ug/L	0	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	524.0000	ug/L	5	20	
Iron	200000.0	186100.0	ug/L	-7		
Lead	1000.000	901.0000	ug/L	-10	20	
Magnesium	500000.0	520400.0	ug/L	4		
Manganese	500.0000	490.0000	ug/L	-2	20	
Molybdenum	500.0000	494.0000	ug/L	-1	20	
Nickel	1000.000	1070.000	ug/L	7	20	
Selenium	500.0000	532.0000	ug/L	6	20	
Silver	1000.000	945.0000	ug/L	-6	20	
Thallium	500.0000	485.0000	ug/L	-3	20	
Titanium	20000.00	2120.000	ug/L	-89		
Vanadium	500.0000	499.0000	ug/L	0	20	
Zinc	1000.000	1030.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285164

Run Name :
Filename : tr211959

Injected : 30-JUL-2003 20:16
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	512100.0	ug/L	2		
Antimony	500.0000	591.0000	ug/L	18	20	
Arsenic	500.0000	582.0000	ug/L	16	20	
Barium	500.0000	543.0000	ug/L	9	20	
Beryllium	500.0000	503.0000	ug/L	1	20	
Cadmium	1000.000	1070.000	ug/L	7	20	
Calcium	500000.0	452300.0	ug/L	-10		
Chromium	500.0000	508.0000	ug/L	2	20	
Cobalt	500.0000	508.0000	ug/L	2	20	
Copper	500.0000	540.0000	ug/L	8	20	
Iron	200000.0	194500.0	ug/L	-3		
Lead	1000.000	951.0000	ug/L	-5	20	
Magnesium	500000.0	541600.0	ug/L	8		
Manganese	500.0000	495.0000	ug/L	-1	20	
Molybdenum	500.0000	512.0000	ug/L	2	20	
Nickel	1000.000	1120.000	ug/L	12	20	
Selenium	500.0000	546.0000	ug/L	9	20	
Silver	1000.000	1050.000	ug/L	5	20	
Thallium	500.0000	523.0000	ug/L	5	20	
Titanium	20000.00	2130.000	ug/L	-89		
Vanadium	500.0000	520.0000	ug/L	4	20	
Zinc	1000.000	1100.000	ug/L	10	20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
001	tr211794	CS				30-JUL-2003 07:25	1.0	1.0				1		
002	tr211795	ICV				30-JUL-2003 07:33	1.0	1.0				2		
003	tr211796	ICB				30-JUL-2003 07:37	1.0	1.0				3		
004	tr211797	CRI				30-JUL-2003 07:41	1.0	1.0				4		
005	tr211798	ICSAB				30-JUL-2003 07:55	1.0	1.0				4		
006	tr211799	BLANK	QC220611			30-JUL-2003 07:59	1.0	50.0						
007	tr211800	BS	QC220612			30-JUL-2003 08:04	1.0	50.0						
008	tr211801	BSD	QC220613			30-JUL-2003 08:08	1.0	50.0						
009	tr211802	MSS	166560-016			30-JUL-2003 08:16	1.0	43.66812	2					
010	tr211803	SER	QC220616			30-JUL-2003 08:20	5.0	43.66812	1			1		
011	tr211804	MS	QC220614			30-JUL-2003 08:24	1.0	46.29630						
012	tr211805	MSD	QC220615			30-JUL-2003 08:28	1.0	39.84064						
013	tr211806	PDS	QC220628			30-JUL-2003 08:34	1.0	43.66812						
014	tr211807	CCV				30-JUL-2003 08:45	1.0	1.0				7		
015	tr211808	CCB				30-JUL-2003 08:52	1.0	1.0						
016	tr211809	SAMPLE	166590-001			30-JUL-2003 08:57	1.0	46.72897						
017	tr211810	SAMPLE	166590-002			30-JUL-2003 09:01	1.0	46.51163						
018	tr211811	SAMPLE	166590-003			30-JUL-2003 09:04	1.0	47.39336						
019	tr211812	SAMPLE	166590-004			30-JUL-2003 09:08	1.0	37.87879	1					
020	tr211813	SAMPLE	166590-004			30-JUL-2003 09:15	50.0	37.87879						
021	tr211814	SAMPLE	166495-003			30-JUL-2003 09:19	1.0	1.0						
022	tr211815	SAMPLE	166495-004			30-JUL-2003 09:23	1.0	1.0						
023	tr211816	SAMPLE	166495-005			30-JUL-2003 09:27	1.0	1.0						
024	tr211817	SAMPLE	166547-006			30-JUL-2003 09:31	1.0	1.0						
025	tr211818	SER	QC220616			30-JUL-2003 09:35	5.0	43.66812				3		
026	tr211819	CCV				30-JUL-2003 09:44	1.0	1.0				7		
027	tr211820	CCB				30-JUL-2003 09:50	1.0	1.0						
028	tr211821	ICSAB				30-JUL-2003 09:54	1.0	1.0				4		
029	tr211822	BLANK	QC220319			30-JUL-2003 09:59	1.0	50.0						
030	tr211823	BS	QC220320			30-JUL-2003 10:06	1.0	50.0						
031	tr211824	BSD	QC220321			30-JUL-2003 10:09	1.0	50.0						
032	tr211825	MSS	166535-021			30-JUL-2003 10:14	1.0	47.39336	1					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Meru Date: 7/30/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr211826	SER	QC220324	83185	Soil	30-JUL-2003	10:21 5.0	47.39336		1			
034	tr211827	MSS	166535-021	83185	Soil	30-JUL-2003	10:25 10.0	47.39336					
035	tr211828	SER	QC220324	83185	Soil	30-JUL-2003	10:50 5.0	47.39336		1			
036	tr211829	SER	QC220324	83185	Soil	30-JUL-2003	10:53 50.0	47.39336		1			
037	tr211830	MS	QC220322	83185	Soil	30-JUL-2003	10:57 1.0	48.07692	1	2			2:FE=175900
038	tr211831	MSD	QC220323	83185	Soil	30-JUL-2003	11:01 1.0	47.84689	1	2			2:FE=177700
039	tr211832	CCV				30-JUL-2003	11:06 1.0	1.0				8	
040	tr211833	CCB				30-JUL-2003	11:12 1.0	1.0					
041	tr211834	SAMPLE	166535-022	83185	Soil	30-JUL-2003	11:16 1.0	45.66210					2:FE=248200
042	tr211835	SAMPLE	166535-023	83185	Soil	30-JUL-2003	11:19 1.0	47.16981					2:FE=226000
043	tr211836	SAMPLE	166535-024	83185	Soil	30-JUL-2003	11:23 1.0	46.94836					1:FE=138400
044	tr211837	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:26 1.0	48.07692	1				1:FE=124500
045	tr211838	SAMPLE	166535-027	83185	Soil	30-JUL-2003	11:30 1.0	48.07692	1				1:FE=140000
046	tr211839	SAMPLE	166535-028	83185	Soil	30-JUL-2003	11:33 1.0	46.51163					1:FE=172800
047	tr211840	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:37 1.0	45.45455	2				1:FE=155800
048	tr211841	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:41 1.0	48.07692					1:FE=126500
049	tr211842	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:44 1.0	45.45455	1				1:FE=153600
050	tr211843	PDS	QC220661	83185	Soil	30-JUL-2003	11:48 1.0	47.39336				9 10	1:FE=161200
051	tr211844	CCV				30-JUL-2003	11:59 1.0	1.0				7	
052	tr211846	CCB				30-JUL-2003	12:07 1.0	1.0					
053	tr211848	SAMPLE	166535-027	83185	Soil	30-JUL-2003	12:12 10.0	48.07692	1				
054	tr211849	SAMPLE	166535-029	83185	Soil	30-JUL-2003	12:16 10.0	45.45455					
055	tr211850	SAMPLE	166535-030	83185	Soil	30-JUL-2003	12:19 1.0	45.24887					1:FE=168800
056	tr211851	SAMPLE	166535-031	83185	Soil	30-JUL-2003	12:23 1.0	47.39336					1:FE=143300
057	tr211852	SAMPLE	166535-032	83185	Soil	30-JUL-2003	12:26 1.0	46.72897					1:FE=158800
058	tr211853	SAMPLE	166535-033	83185	Soil	30-JUL-2003	12:30 1.0	48.54369					1:FE=119200
059	tr211854	SAMPLE	166535-034	83185	Soil	30-JUL-2003	12:33 1.0	45.24887					1:FE=139700
060	tr211855	SAMPLE	166535-035	83185	Soil	30-JUL-2003	12:37 1.0	46.08295					1:FE=133500
061	tr211856	MS	QC220322	83185	Soil	30-JUL-2003	12:40 10.0	48.07692		3			
062	tr211857	MSD	QC220323	83185	Soil	30-JUL-2003	12:44 10.0	47.84689					
063	tr211858	CCV				30-JUL-2003	12:49 1.0	1.0				11	
064	tr211859	CCB				30-JUL-2003	13:00 1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Melvin Date: 7/30/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	lenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr211860	BLANK	QC220313		83184	Soil	30-JUL-2003	13:03	1.0	50.0					
066	tr211861	BS	QC220314		83184	Soil	30-JUL-2003	13:07	1.0	50.0					
067	tr211862	BSD	QC220315		83184	Soil	30-JUL-2003	13:11	1.0	50.0					
068	tr211863	MSS	166535-014		83184	Soil	30-JUL-2003	13:15	1.0	42.01681	2				1:FE=165000
069	tr211864	MSS	166535-014		83184	Soil	30-JUL-2003	13:19	1.0	42.01681	1				1:FE=164800
070	tr211865	MSS	166535-014		83184	Soil	30-JUL-2003	13:22	10.0	42.01681					
071	tr211866	SER	QC220318		83184	Soil	30-JUL-2003	13:26	5.0	42.01681					
072	tr211867	SER	QC220318		83184	Soil	30-JUL-2003	13:40	50.0	42.01681	1				
073	tr211868	MS	QC220316		83184	Soil	30-JUL-2003	13:43	1.0	45.04505					2:FE=184000
074	tr211869	MSD	QC220317		83184	Soil	30-JUL-2003	13:47	1.0	48.54369					2:FE=183400
075	tr211870	CCV					30-JUL-2003	13:52	1.0	1.0				8	
076	tr211871	CCB					30-JUL-2003	14:01	1.0	1.0					
077	tr211872	SAMPLE	166535-001		83184	Soil	30-JUL-2003	14:04	1.0	46.51163	1				1:FE=137200
078	tr211873	SAMPLE	166535-002		83184	Soil	30-JUL-2003	14:08	1.0	44.64286					1:FE=140900
079	tr211874	SAMPLE	166535-003		83184	Soil	30-JUL-2003	14:11	1.0	45.24887					1:FE=136500
080	tr211875	SAMPLE	166535-004		83184	Soil	30-JUL-2003	14:15	1.0	45.66210					1:FE=113400
081	tr211876	SAMPLE	166535-005		83184	Soil	30-JUL-2003	14:18	1.0	45.24887					1:FE=122000
082	tr211877	SAMPLE	166535-006		83184	Soil	30-JUL-2003	14:22	1.0	47.84689	1				1:FE=110900
083	tr211878	SAMPLE	166535-007		83184	Soil	30-JUL-2003	14:25	1.0	44.24779					3:CA=1062000
084	tr211879	SAMPLE	166535-008		83184	Soil	30-JUL-2003	14:29	1.0	45.45455	1				1:FE=144100
085	tr211880	SAMPLE	166535-009		83184	Soil	30-JUL-2003	14:32	1.0	45.04505	1				1:FE=123500
086	tr211881	SAMPLE	166535-010		83184	Soil	30-JUL-2003	14:36	1.0	45.87156					1:FE=147600
087	tr211882	CCV					30-JUL-2003	14:42	1.0	1.0				7	
088	tr211883	CCB					30-JUL-2003	14:49	1.0	1.0					
089	tr211884	SAMPLE	166535-001		83184	Soil	30-JUL-2003	14:52	1.0	46.51163					1:FE=139100
090	tr211885	SAMPLE	166535-006		83184	Soil	30-JUL-2003	14:56	1.0	47.84689					1:FE=109400
091	tr211886	SAMPLE	166535-008		83184	Soil	30-JUL-2003	14:59	10.0	45.45455	1				
092	tr211887	SAMPLE	166535-009		83184	Soil	30-JUL-2003	15:03	10.0	45.04505	1				
093	tr211888	SAMPLE	166535-036		83185	Soil	30-JUL-2003	15:07	1.0	47.16981					1:FE=144800
094	tr211889	SAMPLE	166535-037		83185	Soil	30-JUL-2003	15:10	1.0	44.64286					1:FE=156400
095	tr211890	SAMPLE	166535-038		83185	Soil	30-JUL-2003	15:13	1.0	45.45455					1:FE=137700
096	tr211891	SAMPLE	166535-039		83185	Soil	30-JUL-2003	15:17	1.0	45.04505					1:FE=124800

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Melvin Date: 7/30/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
097	tr211892	SAMPLE	166535-040	83185	Soil	30-JUL-2003 15:20	1.0	48.30918					1:FE=130500	
098	tr211893	SAMPLE	166535-041	83185	Soil	30-JUL-2003 15:24	1.0	47.61905					1:FE=143900	
099	tr211894	CCV				30-JUL-2003 15:28	1.0	1.0				8		
100	tr211895	CCV				30-JUL-2003 15:33	1.0	1.0						
101	tr211896	SAMPLE	166535-011	83184	Soil	30-JUL-2003 15:36	1.0	46.94836					1:FE=141900	
102	tr211897	SAMPLE	166535-012	83184	Soil	30-JUL-2003 15:40	1.0	45.66210					1:FE=159300	
103	tr211898	SAMPLE	166535-013	83184	Soil	30-JUL-2003 15:43	1.0	48.78049					1:FE=139500	
104	tr211899	SAMPLE	166535-015	83184	Soil	30-JUL-2003 15:47	1.0	47.39336					1:FE=139600	
105	tr211900	SAMPLE	166535-016	83184	Soil	30-JUL-2003 15:50	1.0	44.24779					1:FE=157700	
106	tr211901	SAMPLE	166535-017	83184	Soil	30-JUL-2003 15:54	1.0	47.16981					1:FE=128400	
107	tr211902	SAMPLE	166535-018	83184	Soil	30-JUL-2003 15:57	1.0	46.29630					1:FE=157200	
108	tr211903	SAMPLE	166535-019	83184	Soil	30-JUL-2003 16:01	1.0	45.24887					1:FE=143100	
109	tr211904	SAMPLE	166535-020	83184	Soil	30-JUL-2003 16:04	1.0	43.85965					1:FE=167000	
110	tr211905	SAMPLE	166560-001	83258	Soil	30-JUL-2003 16:08	1.0	45.24887					2:FE=216500	
111	tr211906	CCV				30-JUL-2003 16:15	1.0	1.0				7		
112	tr211907	CCV				30-JUL-2003 16:21	1.0	1.0						
113	tr211908	ICSA				30-JUL-2003 16:25	1.0	1.0				4		
114	tr211909	SAMPLE	166560-002	83258	Soil	30-JUL-2003 16:28	1.0	43.85965					4:AL=524600	
115	tr211910	SAMPLE	166560-004	83258	Soil	30-JUL-2003 16:32	1.0	41.8410					3:FE=386100	
116	tr211911	SAMPLE	166560-002	83258	Soil	30-JUL-2003 16:36	1.0	43.85965					2:FE=253400	
117	tr211912	SAMPLE	166560-005	83258	Soil	30-JUL-2003 16:40	1.0	37.87879					3:FE=384400	
118	tr211913	SAMPLE	166560-006	83258	Soil	30-JUL-2003 16:43	1.0	42.73504					2:FE=295200	
119	tr211914	SAMPLE	166560-013	83258	Soil	30-JUL-2003 16:47	1.0	41.49378					2:FE=328900	
120	tr211915	SAMPLE	166560-017	83258	Soil	30-JUL-2003 16:50	1.0	48.78049					2:FE=300100	
121	tr211916	SAMPLE	166560-019	83258	Soil	30-JUL-2003 16:54	1.0	42.55319					2:FE=227200	
122	tr211917	SAMPLE	166560-020	83258	Soil	30-JUL-2003 16:57	1.0	41.49378					4:FE=459000	
123	tr211918	CCV				30-JUL-2003 17:06	1.0	1.0					3:FE=375900	
124	tr211919	CCV				30-JUL-2003 17:10	1.0	1.0				7		
125	tr211920	SAMPLE	166560-006	83258	Soil	30-JUL-2003 17:17	1.0	42.73504					2:FE=325600	
126	tr211921	SAMPLE	166560-021	83258	Soil	30-JUL-2003 17:20	1.0	41.8410					1:FE=176200	
127	tr211922	BLANK	QC220617	83259	Soil	30-JUL-2003 17:24	1.0	50.0				2		
128	tr211923	BS	QC220618	83259	Soil	30-JUL-2003 17:27	1.0	50.0				1		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Mes W Date: 7/30/03
Page 4 of 6

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
129	tr211924	BSD	QC220619	83259	Soil	30-JUL-2003 17:31	1.0	50.0	1					
130	tr211925	CCV				30-JUL-2003 17:45	1.0	1.0				7		
131	tr211926	CCB				30-JUL-2003 17:58	1.0	1.0	1					
132	tr211927	MSS	166561-001	83259	Soil	30-JUL-2003 18:01	1.0	41.49378	4					2:FE=206300
133	tr211928	SER	QC220622	83259	Soil	30-JUL-2003 18:05	5.0	41.49378	1					
134	tr211929	MS	QC220620	83259	Soil	30-JUL-2003 18:08	1.0	38.75969	1					2:FE=219600
135	tr211930	MSD	QC220621	83259	Soil	30-JUL-2003 18:12	1.0	48.07692	1					2:FE=185500
136	tr211931	SAMPLE	166561-002	83259	Soil	30-JUL-2003 18:15	1.0	45.24887						3:FE=222200
137	tr211932	SAMPLE	166561-003	83259	Soil	30-JUL-2003 18:19	1.0	37.59398						2:FE=216500
138	tr211933	SAMPLE	166561-004	83259	Soil	30-JUL-2003 18:22	1.0	48.54369						
139	tr211934	CCV				30-JUL-2003 18:28	1.0	1.0	2			8		
140	tr211935	X				30-JUL-2003 18:35	1.0	1.0						
141	tr211936	CCB				30-JUL-2003 18:40	1.0	1.0						
142	tr211937	SAMPLE	166561-005	83259	Soil	30-JUL-2003 18:44	1.0	46.08295	1					3:FE=201600
143	tr211938	SAMPLE	166561-006	83259	Soil	30-JUL-2003 18:47	1.0	42.37288						2:FE=189000
144	tr211939	SAMPLE	166561-007	83259	Soil	30-JUL-2003 18:51	1.0	47.39336						1:FE=162100
145	tr211940	SAMPLE	166561-008	83259	Soil	30-JUL-2003 18:54	1.0	44.84305						1:FE=155900
146	tr211941	SAMPLE	166561-009	83259	Soil	30-JUL-2003 18:58	1.0	46.72897						2:FE=178900
147	tr211942	SAMPLE	166561-010	83259	Soil	30-JUL-2003 19:01	1.0	45.87156						3:FE=203800
148	tr211943	SAMPLE	166561-011	83259	Soil	30-JUL-2003 19:05	1.0	49.50495						2:FE=205800
149	tr211944	SAMPLE	166561-012	83259	Soil	30-JUL-2003 19:08	1.0	43.85965						4:FE=235900
150	tr211945	SAMPLE	166561-013	83259	Soil	30-JUL-2003 19:12	1.0	48.30918						3:FE=198100
151	tr211946	SAMPLE	166561-015	83259	Soil	30-JUL-2003 19:15	1.0	40.81633						2:FE=208100
152	tr211947	CCV				30-JUL-2003 19:21	1.0	1.0	2			7		
153	tr211948	X				30-JUL-2003 19:28	1.0	1.0						
154	tr211949	CCB				30-JUL-2003 19:32	1.0	1.0	1					
155	tr211950	SAMPLE	166561-016	83259	Soil	30-JUL-2003 19:37	1.0	48.07692	1					1:FE=170000
156	tr211951	SAMPLE	166561-017	83259	Soil	30-JUL-2003 19:40	1.0	47.61905						1:FE=196000
157	tr211952	SAMPLE	166561-018	83259	Soil	30-JUL-2003 19:44	1.0	47.84689						4:FE=390300
158	tr211953	SAMPLE	166561-019	83259	Soil	30-JUL-2003 19:47	1.0	49.01961						3:FE=225100
159	tr211954	SAMPLE	166561-020	83259	Soil	30-JUL-2003 19:50	1.0	49.26108						2:FE=195200
160	tr211955	SAMPLE	166561-021	83259	Soil	30-JUL-2003 19:54	1.0	47.84689						3:FE=259400

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Me Cu Date: 7/3/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP Begun: 30-JUL-2003

#	Filename	Type	Sample	num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
161	tr211956	CCV					30-JUL-2003 20:01	1.0	1.0	3			8		
162	tr211957	X	rinse				30-JUL-2003 20:08	1.0	1.0						
163	tr211958	CCB					30-JUL-2003 20:12	1.0	1.0	4					
164	tr211959	ICSAB					30-JUL-2003 20:16	1.0	1.0				4		4:MG=541600

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: MEW Date: 7/30/03

REPORTING SUMMARY FOR 166560 METALS Soil

Lab ID	Inst ID	AnalYZed	IDF	S B	B A	C U	P B	Z N
166560-001	MET07	07/30/03 16:08	1.0	+	+	+	+	+
166560-002	MET07	07/30/03 16:28	1.0		+	+		+
166560-002	MET07	07/30/03 16:36	1.0	+			+	
166560-004	MET07	07/30/03 16:32	1.0	+	+	+	+	+
166560-005	MET07	07/30/03 16:40	1.0	+	+	+	+	+
166560-006	MET07	07/30/03 16:43	1.0	+	+	+		+
166560-006	MET07	07/30/03 17:17	1.0				+	
166560-013	MET07	07/30/03 16:47	1.0	+	+	+	+	+
166560-016	MET07	07/30/03 08:16	1.0	+	+	+	+	+
166560-017	MET07	07/30/03 16:50	1.0	+	+	+	+	+
166560-019	MET07	07/30/03 16:54	1.0	+	+	+	+	+
166560-020	MET07	07/30/03 16:57	1.0	+	+	+	+	+
166560-021	MET07	07/30/03 17:20	1.0	+	+	+	+	+
QC220611	MET07	07/30/03 07:59	1.0	+	+	+	+	+
QC220612	MET07	07/30/03 08:04	1.0	+	+	+	+	+
QC220613	MET07	07/30/03 08:08	1.0	+	+	+	+	+
QC220614	MET07	07/30/03 08:24	1.0	+	+	+	+	+
QC220615	MET07	07/30/03 08:28	1.0	+	+	+	+	+
QC220616	MET07	07/30/03 08:20	5.0	+	+	+		+
QC220616	MET07	07/30/03 09:35	5.0				+	
QC220628	MET07	07/30/03 08:34	1.0	+	+	+	+	+

Curtis & Tompkins Laboratories

Sample Preparation Summary

30-JUL-2003 07:34

Batch Number : 83258
Date Extracted by : 29-JUL-2003
Prep Method : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166560-001		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166560-002		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166560-004		Treadwell & Rollo	Soil	2.39	g	100	41.8410	1				BA, CU, PB, SB, ZN	
166560-005		Treadwell & Rollo	Soil	2.64	g	100	37.8787	1				BA, CU, PB, SB, ZN	
166560-006		Treadwell & Rollo	Soil	2.34	g	100	42.7350	1				BA, CU, PB, SB, ZN	
166560-013		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1				BA, CU, PB, SB, ZN	
166560-016		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1				BA, CU, PB, SB, ZN	
166560-017		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166560-019		Treadwell & Rollo	Soil	2.35	g	100	42.5531	1				BA, CU, PB, SB, ZN	
166560-020		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1				BA, CU, PB, SB, ZN	
166560-021		Treadwell & Rollo	Soil	2.39	g	100	41.8410	1				BA, CU, PB, SB, ZN	
166564-001		ConocoPhillips Company	Miscell.	2.68	g	100	37.3134	1				V	mss
166585-001		ConocoPhillips Company	Miscell.	2.6	g	100	38.4615	1				V	
166585-002		ConocoPhillips Company	Miscell.	2.56	g	100	39.0625	1				V	
166585-003		ConocoPhillips Company	Miscell.	2.34	g	100	42.7350	1				V	
166585-004		ConocoPhillips Company	Miscell.	2.52	g	100	39.6825	1				V	
166590-001		Innovative Technical Solutions	Soil	2.14	g	100	46.7289	1				PB	
166590-002		Innovative Technical Solutions	Soil	2.15	g	100	46.5116	1				PB	
166590-003		Innovative Technical Solutions	Soil	2.11	g	100	47.3933	1				PB	
166590-004		Innovative Technical Solutions	Soil	2.64	g	100	37.8787	1				PB	
QC220611	BLANK		Soil	2	g	100	50	1	1			ICAP	
QC220612	BS		Soil	2	g	100	50	1	1			ICAP	
QC220613	BSD		Soil	2	g	100	50	1	1			ICAP	
QC220614	MS		Soil	2.16	g	100	46.2962	1	1			ICAP	
QC220615	MSD	of 166560-016	Soil	2.51	g	100	39.8406	1	1			ICAP	
QC220616	SER	of 166560-016	Soil	2.29	g	100	43.6681	1	1			ICAP	
QC220628	PDS	of 166560-016	Soil	2.29	g	100	43.6681	1	1			ICAP	

Prep Chemist: *James for V*
Relinquished By: *James for V*

Reviewed By:

Date:

Received By:

Date:

James 7/28/03
James 7/28/03

07/29/03

83258

RCAP/3050

Sample	Sample mass(g)	Final Vol. (ml)	Filtered yes/no	Comments
BKQC 220611	0	100.0	YES	SPIKES
* BS 220612				* 0355286 (1.0ml)
* BSD 220613				* 0355287 ↓
* 166560-0016 ms	A 2.16			
* 0016 ms0	2.51			
ms 0016	2.29			
- 001	2.21			
- 002	2.28			
- 004	2.39			
- 005	2.64			
- 006	2.34			
- 013	2.41			
- 017	2.05			
- 019	2.55			
- 020	2.41			
↓ - 021	2.39			
166564-001	comp 2.68			
166585-001	comp 2.60			
- 002	2.56			
- 003	2.34			
- 004	2.52			
↓ - 007	2.51			
166590-001	A 2.14			
- 002	A 2.15			
- 003	2.11			
↓ - 004	A 2.64			
166560-005	W 7/29/03			

Reagents
 1:1 HNO₃ # Y08024-072303
 HNO₃ # J Baker - W05050
 H₂O₂ VWR # 42295317
 1:1 HCL Y12028-072303

VV 7/29/03

Pharm

07/29/03

James

7/29/03

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0800000	0.015	0.10	mg/Kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83218
Date: 07/29/03
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166560-001	15.4510	21.0860	20.8932	97	3
166560-002	16.0269	22.1303	21.8610	96	4
166560-004	15.5653	21.4914	21.0381	92	8
166560-005	15.8129	21.8264	21.6305	97	3
166560-006	15.3118	21.8092	21.6259	97	3
166560-013	15.1956	23.0353	22.0355	87	13
166560-016	15.4599	22.5672	21.8355	90	10
166560-017	15.3822	22.0246	21.3799	90	10
166560-019	11.2221	17.3723	16.2613	82	18
166560-020	15.2780	22.3467	21.6135	90	10
166560-021	15.8897	24.4325	22.9104	82	18
166562-001	15.6306	21.6995	21.6542	99	1
166562-002	15.8317	22.1653	21.6305	92	8
166562-003	15.7132	21.4037	21.2791	98	2
166562-004	11.0865	17.2485	17.2377	100	0
166562-005	11.1247	17.4638	17.2841	97	3
166562-006	15.1892	21.8948	21.8655	100	0
166562-007	11.1249	17.5087	17.4966	100	0
166562-008	15.7750	22.7760	22.7241	99	1
QC220464	15.3767	21.9484	21.8985	99	1
of 166562-001			RPD:	0.0%	1.7%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83218
 Date Started: 28-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166560-001		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-002		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-004		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-005		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-006		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-013		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-016		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-017		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-019		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-020		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166560-021		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166562-001		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-002		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-003		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-004		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-005		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-006		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-007		Innovative Technic	Soil	MOISTURE	29-JUL-2003
166562-008		Innovative Technic	Soil	MOISTURE	29-JUL-2003
QC220464	SDUP	of 166562-001	Soil	MOISTURE	

7/28/03

83218

Sample	Dish #	Tare #	Ini. Wt.	Fin. Wt.	Comm.
BXNR	38	15.4475	—	15.4479	
166562 -1	GD	15.6306	21.6945	21.6542	
-1 DUP	114	15.8767	21.9484	21.8985	
-2	24D	15.8317	22.1653	21.6305	
-3	13X	15.7132	21.4037	21.2791	
-4	JD	11.0865	17.2489	17.2377	
-5	III	11.1247	17.4638	17.2841	
-6	21X	15.1842	21.8948	21.8655	
-7	II	11.1249	17.5887	17.4960	
-8	3X	15.7750	22.7760	22.7241	
166560 -1	IQ	15.4510	21.0860	20.8932	
-2	12D	14.0269	22.1303	21.8610	
-4	18X	15.5653	21.4914	21.0381	
-5	III	15.8129	21.8264	21.6305	
-6	F	15.3118	21.8092	21.6259	
-13	FA	15.1956	23.0353	22.0355	
-16	000	15.4599	22.5672	21.8355	
-17	4L	15.3822	22.0246	21.3799	
-19	XII	11.2221	17.3723	16.2613	
-20	113A	15.2780	22.3467	21.6355	
-21	20-D	15.8897	24.4325	22.9104	

OVEN TEMP: 105°C

TIME IN: 7/28/03 2:10 P.M.

TIME OUT: ~~7/28/03~~ 9:25 AM ON 7/29/03

Continued on Page

Read and Understood By

R. Mennel
Signed

7/28/03
Date

176

[Signature]
Signed

7/29/03
Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166561

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
LCBSB13 [0.3]	166561-001	LCBSB03 [2.5]	166561-025
LCBSB13 [1]	166561-002	LCBSB06 [1]	166561-026
LCBSB14 [0.3]	166561-003	LCBSB06 [2]	166561-027
LCBSB14 [1]	166561-004	DW072503A	166561-028
LCBSB16 [0.3]	166561-005	DUP072503A	166561-029
LCBSB16 [1]	166561-006	CHPSB25 [1]	166561-030
LCBSB15 [1]	166561-007	CHPSB25 [2]	166561-031
DUP072403C	166561-008	CHPSB25 [3]	166561-032
LCBSB15 [2]	166561-009	CHPSB26 [1]	166561-033
LCBSB10 [0.5]	166561-010	CHPSB26 [3]	166561-034
LCBSB10 [1.5]	166561-011	CHPSB26 [3.5]	166561-035
LCBSB08 [0.3]	166561-012	CHPSB24 [0.3]	166561-036
LCBSB08 [1]	166561-013	CHPSB24 [1]	166561-037
LCBSB07 [1]	166561-014	CHPSB24 [2.5]	166561-038
LCBSB07 [2]	166561-015	CHPSB23 [0.3]	166561-039
LCBSB11 [0.3]	166561-016	CHPSB23 [1]	166561-040
LCBSB11 [1]	166561-017	CHPSB23 [2.5]	166561-041
LCBSB05 [0.3]	166561-018	CHPSB22 [0.3]	166561-042
LCBSB05 [1]	166561-019	CHPSB21 [1]	166561-043
LCBSB02 [1]	166561-020	CHPSB21 [2.5]	166561-044
LCBSB02 [2.5]	166561-021	CHPSB21 [0.3]	166561-045
DUP072403D	166561-022	CHPSB22 [1]	166561-046
LCBSB03 [1] RB [2.5]	166561-023	CHPSB22 [2.5]	166561-047
LCBSB03 [1]	166561-024		



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166561

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/8/03

Signature: _____

Project Manager

Date: _____

8/8/03

Laboratory Number: **166561**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/25/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for two water and forty-five soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The water matrix spike recoveries for iron, magnesium, and manganese, and the soil matrix spike recoveries for aluminum, iron, and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The water matrix spike recoveries for antimony, and the soil matrix spike recoveries for antimony, copper, magnesium, nickel, and zinc were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The %D of the continuing calibration standard (CCS) tr212111 was outside acceptance limits for antimony, iron, and thallium, however, the standard did not bracket any reported results.

The %D of the CCS tr211934 was above acceptance limits for antimony. The element was not detected in the associated samples, therefore, there is no affect on the quality of the sample results.

Trace level iron and thallium was detected in the continuing calibration blank (CCB) tr212113, however, the standard did not bracket any reported results.

The serial dilution sample analyzed on 8/1/03 at 10:46 was outside acceptance limits for thallium. The serial dilution sample analyzed on 7/28/03 at 13:13 was outside acceptance limits for arsenic, lead, and thallium. The serial dilution sample analyzed on 7/30/03 at 18:05 was outside acceptance limits for antimony and lead. The serial dilution sample analyzed on 7/31/03 at 09:51 was outside acceptance limits for arsenic. The serial dilution sample analyzed on 7/31/03 at 15:00 was outside acceptance limits for arsenic, copper, and lead. No other analytical problems were encountered.

Chain of Custody

166561

Treadwell & Rollo

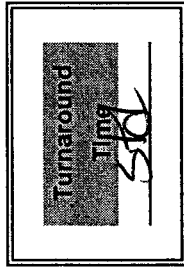
Environmental and Geotechnical Consultant

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Page 1 of 4

Site Name: Presidio Firing Range
 Job Number: 2893.073
 Project Manager/Contact: Dorinda Shipman
 Samplers: DTJ/RLR
 Recorder (Signature Required): [Signature]



No. Containers & Preservative

Matrix

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix	No. Containers & Preservative	Analysis Requested	Hold	Remarks
LCBSB13C03	7/24/03	1234		Soil				19 metals - Al, Sb, As
LCBSB13C1	7/24/03	1236		Water				Ba, Be, Cd, Mn, Pb, Se
LCBSB14C03	7/24/03	1240		Water				Pb, Mg, 11 Zn, Cu
LCBSB14C1	7/24/03	1241		Water				Cr, Co, Fe, Ag
LCBSB16C03	7/24/03	1256		Water				
LCBSB16C1	7/24/03	1258		Water				
LCBSB15C1	7/24/03	1308		Water				
DUPT012403C	7/24/03	1316		Water				
LCBSB15C2	7/24/03	1311		Water				
LCBSB10C03	7/24/03	1317		Water				
LCBSB10C1	7/24/03	1318		Water				
LCBSB08C03	7/24/03	1341		Water				
LCBSB08C1	7/24/03	1345		Water				
LCBSB07C1	7/24/03	1400		Water				
Relinquished by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time						
Relinquished by: (Signature)	Date	Time						

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Page 2 of 4

Site Name: Presidio Firing Ranges
 Job Number: 2893.07
 Project Manager/Contact: David Shipman
 Samplers: RPR/DSS
 Recorder (Signature Required): Richard

Turnaround Time
2d

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested				Hold	Silica gel clean-up	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃		Ice	Other					
-15 LCBSB07 [2]	7/24/03	1402		X													19 metals
-16 LCBSB11 [0.3]	7/24/03	1423		X													19 metals
-17 LCBSB11 [1]	7/24/03	1424		X													5 metals
-18 LCBSB09 [0.3]	7/24/03	1435		X													
-19 LCBSB05 [1]	7/24/03	1430		X													
-20 LCBSB02 [1]	7/24/03	1451		X													
-21 LCBSB02 [2.5]	7/24/03	1454		X													
-22 DUF02403D	7/24/03	1452		X													
-23 LCBSB03 [1]	7/24/03	1520		X													
-24 LCBSB03 [1]	7/24/03	1517		X													
-25 LCBSB03 [2.5]	7/24/03	1525		X													
-26 LCBSB06 [1]	7/24/03	1541		X													
-27 LCBSB06 [2.5]	7/24/03	1542		X													
-28 DWD0503A	7/25/03	0700		X													
Relinquished by: (Signature) <u>Richard</u>				Date		Time		1130		Received by: (Signature) <u>David Shipman</u>		Date		Time		7/25/03 11:30	
Relinquished by: (Signature)				Date		Time				Received by: (Signature)		Date		Time			
Relinquished by: (Signature)				Date		Time				Received by Lab: (Signature)		Date		Time			
Sent to Laboratory (Name): <u>Curtis & Tempkins</u> Laboratory Comments/Notes:																	

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☐ Hand Carried ☐ Private Courier (Co. Name)

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166561

Treadwell & Rollo

Environmental and Geotechnical Consultant

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Page 3 of 4

Site Name:

Presidio Fring Ranges

Job Number:

2893-07

Project Manager/Contact:

Devin Shipman

Samplers:

RRR1035

Recorder (Signature Required):

Roberta Roberts

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested	Hold	Silica gel clean-up	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice						Other
-29 D0P072503A	7-25-03	0820		X									X		5 metals, - Sp, Ba, Cu Pb Zn	
-30 CHPSB25C17	7-25-03	0822		X									X		19 metals see pg 1	
-31 CHPSB25C17	7-25-03	0828		X									X			
-32 CHPSB25C17	7-25-03	0830		X									X			
-33 CHPSB26C17	7-25-03	0833		X									X			
-34 CHPSB26C17	7-25-03	0835		X									X			
-35 CHPSB26C17	7-25-03	0837		X									X			
-36 CHPSB26C17	7-25-03	0845		X									X			
-37 CHPSB26C17	7-25-03	0847		X									X			
-38 CHPSB26C17	7-25-03	0848		X									X			
-39 CHPSB26C17	7-25-03	0853		X									X			
-40 CHPSB26C17	7-25-03	0854		X									X			
-41 CHPSB26C17	7-25-03	0855		X									X			
-42 CHPSB26C17	7-25-03	0903		X									X			
Relinquished by: (Signature)				Date							Time		Date		Time	
<u>[Signature]</u>				7-25-03							1130		1/25/03		11:30	
Relinquished by: (Signature)				Date							Time		Date		Time	
Relinquished by: (Signature)				Date							Time		Date		Time	
Sent to Laboratory (Name):				Date							Time		Date		Time	
Laboratory Comments/Notes:																

Turnaround Time

Std.

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Patricia Flynn

From: "Dorinda Shipman" <dcshipman@treadwellrollo.com>
To: "Patricia Flynn" <pat@ctberk.com>
Cc: "Dustyne Sutherland" <djsutherland@treadwellrollo.com>; "Erin Iverson" <eliverson@treadwellrollo.com>
Sent: Monday, July 28, 2003 12:40 PM
Subject: RE: Extra samples received on 7/25/03

Hi Pat,

Please analyze both samples for the 5 metals.

Thanks,
Dorinda

Dorinda Shipman, RG, CHG
Associate Hydrogeologist
Treadwell & Rollo, Inc.
555 Montgomery Street, Suite 1300
San Francisco, CA 94111
415-955-9040
fax 955-9041
dcshipman@treadwellrollo.com

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-----Original Message-----

From: Patricia Flynn [mailto:pat@ctberk.com]
Sent: Monday, July 28, 2003 11:31 AM
To: Dorinda Shipman
Cc: Steve Stanley
Subject: Extra samples received on 7/25/03

Hi Dorinda,

Job# 2893.07 Presidio - firing ranges
We received 2 extra soil samples not on C-O-C.

CHPSB22(1) date 7/25/03 time 0906
CHPSB22(2.5) date 7/25/03 time 0910

Do you want them analyze for 5 metals, 19 metals or put them on hold.

Thanks



COOLER RECEIPT CHECKLIST

Login#: 166561 Date Received: 7-25-03 Number of Coolers: 2
Client: Treadwell & Rolla Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-25-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: Wet Temperature: 3.5 4.2

B. Login Phase

Date Logged In: 7-25-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Describe type of packing in cooler: In ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DW072503A	Batch#:	83290
Lab ID:	166561-028	Sampled:	07/25/03
Matrix:	Water	Received:	07/25/03
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed
Aluminum	ND	100	07/31/03
Antimony	ND	60	08/01/03
Arsenic	ND	5.0	07/31/03
Barium	ND	10	07/31/03
Beryllium	ND	2.0	07/31/03
Cadmium	ND	5.0	07/31/03
Chromium	ND	10	07/31/03
Cobalt	ND	20	07/31/03
Copper	190	10	07/31/03
Iron	140	100	08/01/03
Lead	ND	3.0	07/31/03
Magnesium	690	500	07/31/03
Manganese	ND	10	07/31/03
Nickel	ND	20	07/31/03
Selenium	ND	5.0	07/31/03
Silver	ND	5.0	07/31/03
Thallium	ND	5.0	08/01/03
Vanadium	ND	10	07/31/03
Zinc	25	20	07/31/03

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB03 [1]RB [2.5]	Batch#:	83290
Matrix:	Water	Sampled:	07/24/03
Units:	ug/L	Received:	07/25/03
Diln Fac:	1.000	Prepared:	07/30/03

Type: SAMPLE Lab ID: 166561-023

Analyte	Result	RL	Analyzed
Antimony	ND	60	08/01/03
Barium	ND	10	07/31/03
Copper	18	10	07/31/03
Lead	ND	3.0	07/31/03
Zinc	ND	20	07/31/03

Type: BLANK Analyzed: 07/31/03
 Lab ID: QC220724

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220724	Batch#:	83290
Matrix:	Water	Prepared:	07/30/03
Units:	ug/L	Analyzed:	07/31/03

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83290
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC220725

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aluminum	2,000	2,031	102	80-120	07/31/03
Antimony	500.0	569.0	114	80-120	08/01/03
Arsenic	100.0	106.0	106	80-120	07/31/03
Barium	2,000	2,050	103	80-120	07/31/03
Beryllium	50.00	53.20	106	80-120	07/31/03
Cadmium	50.00	50.90	102	80-120	07/31/03
Chromium	200.0	201.0	101	80-120	07/31/03
Cobalt	500.0	500.0	100	80-120	07/31/03
Copper	250.0	255.0	102	80-120	07/31/03
Iron	1,000	958.6	96	80-120	07/31/03
Lead	100.0	101.0	101	80-120	07/31/03
Magnesium	20,000	20,250	101	80-120	07/31/03
Manganese	50.00	48.90	98	80-120	07/31/03
Nickel	500.0	506.0	101	80-120	07/31/03
Selenium	100.0	99.60	100	80-120	07/31/03
Silver	50.00	50.40	101	80-120	07/31/03
Thallium	100.0	98.80	99	80-120	07/31/03
Vanadium	500.0	509.0	102	80-120	07/31/03
Zinc	500.0	499.0	100	80-120	07/31/03

Type: BSD

Lab ID: QC220726

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	2,000	2,023	101	80-120	0	20	07/31/03
Antimony	500.0	566.0	113	80-120	1	20	08/01/03
Arsenic	100.0	104.0	104	80-120	2	20	07/31/03
Barium	2,000	2,060	103	80-120	0	20	07/31/03
Beryllium	50.00	53.50	107	80-120	1	20	07/31/03
Cadmium	50.00	50.80	102	80-120	0	20	07/31/03
Chromium	200.0	201.0	101	80-120	0	20	07/31/03
Cobalt	500.0	502.0	100	80-120	0	20	07/31/03
Copper	250.0	255.0	102	80-120	0	20	07/31/03
Iron	1,000	956.1	96	80-120	0	20	07/31/03
Lead	100.0	102.0	102	80-120	1	20	07/31/03
Magnesium	20,000	20,290	101	80-120	0	20	07/31/03
Manganese	50.00	48.70	97	80-120	0	20	07/31/03
Nickel	500.0	509.0	102	80-120	1	20	07/31/03
Selenium	100.0	97.80	98	80-120	2	20	07/31/03
Silver	50.00	50.50	101	80-120	0	20	07/31/03
Thallium	100.0	98.00	98	80-120	1	20	07/31/03
Vanadium	500.0	509.0	102	80-120	0	20	07/31/03
Zinc	500.0	501.0	100	80-120	0	20	07/31/03

RPD= Relative Percent Difference
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59.2

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83290
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220725

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	500.0	569.0	114	80-120	08/01/03
Barium	2,000	2,050	103	80-120	07/31/03
Copper	250.0	255.0	102	80-120	07/31/03
Lead	100.0	101.0	101	80-120	07/31/03
Zinc	500.0	499.0	100	80-120	07/31/03

Type: BSD Lab ID: QC220726

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	500.0	566.0	113	80-120	1	20	08/01/03
Barium	2,000	2,060	103	80-120	0	20	07/31/03
Copper	250.0	255.0	102	80-120	0	20	07/31/03
Lead	100.0	102.0	102	80-120	1	20	07/31/03
Zinc	500.0	501.0	100	80-120	0	20	07/31/03

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83290
MSS Lab ID:	166554-002	Sampled:	07/25/03
Matrix:	Water	Received:	07/25/03
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000	Analyzed:	07/31/03

Type: MS Lab ID: QC220727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	457.0	2,000	2,708	113	75-125
Antimony	<12.00	500.0	690.0	138 *	75-125
Arsenic	28.80	100.0	145.0	116	75-125
Barium	350.0	2,000	2,360	101	75-125
Beryllium	0.1880	50.00	50.10	100	75-125
Cadmium	1.600	50.00	49.30	95	75-125
Chromium	11.00	200.0	200.0	95	75-125
Cobalt	1.390	500.0	478.0	95	75-125
Copper	3.780	250.0	297.0	117	75-125
Iron	10,490	1,000	11,430	94 NM	75-125
Lead	<1.300	100.0	94.10	94	75-125
Magnesium	1,870,000	20,000	1,920,000 >LR	252 NM	75-125
Manganese	10,100	50.00	10,200	200 NM	75-125
Nickel	15.30	500.0	494.0	96	75-125
Selenium	<3.200	100.0	87.40	87	75-125
Silver	<0.4300	50.00	60.60	121	75-125
Thallium	8.070	100.0	114.0	106	75-125
Vanadium	36.30	500.0	533.0	99	75-125
Zinc	341.0	500.0	883.0	108	75-125

Type: MSD Lab ID: QC220728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	2,000	2,748	115	75-125	1	20
Antimony	500.0	704.0	141 *	75-125	2	20
Arsenic	100.0	146.0	117	75-125	1	20
Barium	2,000	2,370	101	75-125	0	20
Beryllium	50.00	49.90	99	75-125	0	20
Cadmium	50.00	48.30	93	75-125	2	20
Chromium	200.0	197.0	93	75-125	2	20
Cobalt	500.0	475.0	95	75-125	1	20
Copper	250.0	301.0	119	75-125	1	20
Iron	1,000	11,500	101 NM	75-125	1	20
Lead	100.0	97.80	98	75-125	4	20
Magnesium	20,000	1,914,000 >LR	222 NM	75-125	NC	20
Manganese	50.00	10,200	200 NM	75-125	0	20
Nickel	500.0	489.0	95	75-125	1	20
Selenium	100.0	87.50	88	75-125	0	20
Silver	50.00	57.90	116	75-125	5	20
Thallium	100.0	123.0	115	75-125	8	20
Vanadium	500.0	532.0	99	75-125	0	20
Zinc	500.0	881.0	108	75-125	0	20

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference
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Curtis & Tompkins Laboratories Analytical Report

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83290
MSS Lab ID:	166554-002	Sampled:	07/25/03
Matrix:	Water	Received:	07/25/03
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000	Analyzed:	07/31/03

Type: MS Lab ID: QC220727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	690.0	138 *	75-125
Barium	350.0	2,000	2,360	101	75-125
Copper	3.780	250.0	297.0	117	75-125
Lead	<1.300	100.0	94.10	94	75-125
Zinc	341.0	500.0	883.0	108	75-125

Type: MSD Lab ID: QC220728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	704.0	141 *	75-125	2	20
Barium	2,000	2,370	101	75-125	0	20
Copper	250.0	301.0	119	75-125	1	20
Lead	100.0	97.80	98	75-125	4	20
Zinc	500.0	881.0	108	75-125	0	20

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73305699125	Seqnum : 73305699126
Filename : tr212087	Filename : tr212088
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166554-002	Samplenum: QC220729
Matrix : Water	Matrix : Water
Batchnum : 83290	Batchnum : 83290
Inj : 31-JUL-2003 17:25	Inj : 31-JUL-2003 17:29
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	457	100	977	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	28.8	5.00	ND	25.0	--	10	u
Barium	350	10.0	336	50.0	4	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	ND	5.00	ND	25.0	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	11.0	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	10500	100	10400	500	1	10	u
Lead	ND	3.00	ND	15.0	--	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	10100	10.0	9950	50.0	1	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	8.07	5.00	ND	25.0	--	10	u
Vanadium	36.3	10.0	ND	50.0	--	10	u
Zinc	341	20.0	338	100	1	10	u
Titanium	36.8	10.0	56.0	50.0	--	10	u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079053
Filename : tr212216
IDF : 100.0
PDF : 1.0
Run type : SER
Samplenum: QC220729
Matrix : Water
Batchnum : 83290
Inj : 01-AUG-2003 10:46
Units : ug/L

MSS : 166554-002

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	73307079049	2200	2000	ND	10000	--	10	
Antimony	73307079049	ND	1200	ND	6000	--	10	
Arsenic	73307079049	ND	100	ND	500	--	10	
Barium	73307079049	328	200	ND	1000	--	10	
Beryllium	73307079049	ND	40.0	ND	200	--	10	
Cadmium	73307079049	ND	100	ND	500	--	10	
Calcium	73307079049	694000	10000	684000	50000	1	10	u
Chromium	73307079049	ND	200	ND	1000	--	10	
Cobalt	73307079049	ND	400	ND	2000	--	10	
Copper	73307079049	ND	200	ND	1000	--	10	
Iron	73307079049	13500	2000	10900	10000	--	10	
Lead	73305699136	ND	60.0	ND	300	--	10	
Magnesium	73307079049	1870000	10000	1780000	50000	5	10	u
Manganese	73307079049	10400	200	10100	1000	3	10	
Molybdenum	73307079049	ND	400	ND	2000	--	10	
Nickel	73307079049	ND	400	ND	2000	--	10	
Selenium	73307079049	ND	100	ND	500	--	10	
Silver	73307079049	ND	100	ND	500	--	10	
Thallium	73307079049	ND	100	929	500	--	10	ab*
Vanadium	73307079049	ND	200	ND	1000	--	10	
Zinc	73307079049	ND	400	ND	2000	--	10	
Titanium	73307079049	218	200	ND	1000	--	10	

a=rsd out b=noncompliant u=use

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POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699137
Filename : tr212100
IDF : 1.0
PDF : 1.0
Run type : PDS
Samplenum: QC220938
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 18:52
Units : ug/L

MSS : 166554-002

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73305699125	457.0	2000	2573 106	28-139	u
Antimony	73305699125	ND	500	656.0 131	38-136	u
Arsenic	73305699125	28.80	100	144.0 115	60-138	u
Barium	73305699125	350.0	2000	2330 99	44-138	u
Beryllium	73305699125	0.1880	50	53.00 106	62-126	u
Cadmium	73305699125	1.600	50	51.60 100	54-129	u
Calcium	73305699136	42100	20000	689000 >LR -765	36-135	:>u
Chromium	73305699125	11.00	200	212.0 101	55-129	u
Cobalt	73305699125	1.390	500	513.0 102	54-127	u
Copper	73305699125	3.780	250	299.0 118	57-128	u
Iron	73305699125	10490	1000	12270 178	29-132	:u
Lead	73305699125	ND	100	105.0 105	33-145	u
Magnesium	73307079049	93480	20000	1947000 >LR 387	35-148	:>u
Manganese	73305699125	10100	50	10500 800	32-146	:u
Molybdenum	73305699125	7.530	400	454.0 112	52-130	u
Nickel	73305699125	15.30	500	528.0 103	50-132	u
Selenium	73305699125	ND	100	121.0 121	49-140	u
Silver	73305699125	ND	50	58.30 117	36-137	u
Thallium	73305699125	8.070	100	122.0 114	31-141	u
Vanadium	73305699125	36.30	500	561.0 105	53-135	u
Zinc	73305699125	341.0	500	900.0 112	39-142	u
Titanium	73305699125	36.80	1000	1080 104	58-122	u

:recovery not meaningful >=>LR u=use

Method: 6010B Standard: blank
Run Time: 07/31/03 06:45:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.000	-.087	.000	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	84.7	10.7	77.2	218.	.242	82.1	23.9
#1	-.000	.001	-.000	.000	-.087	.000	.000
#2	-.001	.001	-.000	-.000	-.087	.000	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	.000	-.001
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	46.9	3.20	71.5	44.9	38.8	97.8	36.3
#1	-.000	-.003	.001	.000	.000	.000	-.001
#2	-.000	-.002	.000	.000	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.004	.0262	-.0066
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	20.7	236.	.283	11.7	.627	.3532	.5123
#1	.001	-.000	-.000	.000	.004	.0262	-.0066
#2	.001	.000	-.000	.000	.004	.0263	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0005	.0001	.000	.054			
SDev	.0001	.0000	.000	.000			
%RSD	26.66	10.60	29.0	.283			
#1	-.0004	.0001	.000	.054			
#2	-.0005	.0001	.000	.054			

Method: 6010B Standard: cst hi

Run Time: 07/31/03 06:52:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.140	.087	.034	5.04	.586	.197	.046
SDev	.004	.003	.001	.01	.001	.000	.000
%RSD	3.01	3.31	1.71	.128	.105	.172	.076
#1	.137	.085	.034	5.04	.585	.198	.046
#2	.143	.089	.035	5.03	.586	.197	.046
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.127	.120	.138	.140	.243	.323	.037
SDev	.000	.000	.001	.000	.002	.000	.000
%RSD	.292	.099	.506	.303	.677	.118	.615
#1	.127	.120	.139	.140	.242	.323	.037
#2	.127	.120	.138	.140	.244	.323	.038
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.045	.074	.024	.190	.029	.0529	.0582
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	2.40	.208	.037	.124	.033	.1275	.0046
#1	.046	.074	.024	.190	.029	.0529	.0582
#2	.044	.074	.024	.190	.029	.0528	.0582
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0238	.0357	.204	1.82			
SDev	.0002	.0001	.000	.00			
%RSD	.6685	.2492	.050	.023			
#1	.0237	.0357	.204	1.82			
#2	.0239	.0358	.205	1.82			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	7049.65	5.10082	07/31/03 06:52:30
Sb206A	206.832	Multiple	Standards	11321.5	-9.05347	07/31/03 06:52:30
As1890	189.042	Multiple	Standards	14402.8	4.09173	07/31/03 06:52:30
Ba4934	493.409	Multiple	Standards	198.578	-.023516	07/31/03 06:52:30
Be3130	313.042	Multiple	Standards	143.606	12.4607	07/31/03 06:52:30
Cd2265	226.502	Multiple	Standards	506.590	-.155130	07/31/03 06:52:30
Cr2677	267.716	Multiple	Standards	4332.65	-.952905	07/31/03 06:52:30
Co2286	228.616	Multiple	Standards	3935.67	.696472	07/31/03 06:52:30
Cu3247	324.754	Multiple	Standards	1632.94	4.07111	07/31/03 06:52:30
Pb2203	220.351	Multiple	Standards	3635.38	-2.28473	07/31/03 06:52:30
Pb220A	220.352	Multiple	Standards	3547.94	-.894247	07/31/03 06:52:30
Mo2020	202.030	Multiple	Standards	4120.70	-1.21684	07/31/03 06:52:30
Ni2316	231.604	Multiple	Standards	1545.98	-.323092	07/31/03 06:52:30
Se1960	196.021	Multiple	Standards	12951.6	16.6714	07/31/03 06:52:30
Se196A	196.022	Multiple	Standards	11423.2	-13.2365	07/31/03 06:52:30
Ag3280	328.068	Multiple	Standards	1352.67	-.086813	07/31/03 06:52:30
Tl1908	190.864	Multiple	Standards	20447.6	4.38897	07/31/03 06:52:30
V_2924	292.402	Multiple	Standards	2634.98	-.523252	07/31/03 06:52:30
Zn2138	213.856	Multiple	Standards	4236.82	-18.6885	07/31/03 06:52:30
Al3082	308.215	Multiple	Standards	38014.8	-997.512	07/31/03 06:52:30
Ca3179	317.933	Multiple	Standards	30841.1	204.224	07/31/03 06:52:30
Fe2714	271.441	Multiple	Standards	43039.6	19.3929	07/31/03 06:52:30
Mg2790	279.079	Multiple	Standards	56067.1	-3.91061	07/31/03 06:52:30
Mn2576	257.610	Multiple	Standards	489.790	-.152377	07/31/03 06:52:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Ti3349	334.941	Multiple	Standards	567.556	-30.6263	07/31/03 06:52:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699001

Run Name :
Filename : tr211962

Injected : 31-JUL-2003 06:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.4000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	507.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1006.000	ug/L	1	5	
Lead	500.0000	505.0000	ug/L	1	5	
Magnesium	2000.000	2021.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	505.0000	ug/L	1	5	
Selenium	500.0000	505.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699002

Run Name :
Filename : tr211963

Injected : 31-JUL-2003 07:16
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	464.9000	ug/L	-7	10		
Antimony	500.0000	535.0000	ug/L	7	10		
Arsenic	250.0000	245.0000	ug/L	-2	10		
Barium	500.0000	486.0000	ug/L	-3	10		
Beryllium	50.00000	50.00000	ug/L	0	10		
Cadmium	50.00000	47.70000	ug/L	-5	10		
Calcium	1000.000	1027.000	ug/L	3	10		
Chromium	100.0000	98.90000	ug/L	-1	10		
Cobalt	250.0000	245.0000	ug/L	-2	10		
Copper	100.0000	103.0000	ug/L	3	10		
Iron	500.0000	479.0000	ug/L	-4	10		
Lead	250.0000	247.0000	ug/L	-1	10		
Magnesium	1000.000	995.1000	ug/L	0	10		
Manganese	50.00000	49.10000	ug/L	-2	10		
Molybdenum	500.0000	496.0000	ug/L	-1	10		
Nickel	250.0000	248.0000	ug/L	-1	10		
Selenium	250.0000	243.0000	ug/L	-3	10		
Silver	50.00000	50.50000	ug/L	1	10		
Thallium	250.0000	228.0000	ug/L	-9	10		
Titanium	500.0000	504.0000	ug/L	1	10		
Vanadium	250.0000	246.0000	ug/L	-2	10		
Zinc	50.00000	48.00000	ug/L	-4	10		

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699004

Run Name :
Filename : tr211965

Injected : 31-JUL-2003 07:35
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	100.4000	ug/L	0	50		
Antimony	60.00000	70.80000	ug/L	18	50		
Arsenic	5.000000	4.080000	ug/L	-18	50		
Barium	10.00000	9.650000	ug/L	-4	50		
Beryllium	2.000000	1.570000	ug/L	-22	50		
Cadmium	5.000000	4.390000	ug/L	-12	50		
Chromium	10.00000	8.720000	ug/L	-13	50		
Cobalt	20.00000	19.10000	ug/L	-5	50		
Copper	10.00000	10.80000	ug/L	8	50		
Iron	100.0000	77.99000	ug/L	-22	50		
Lead	3.000000	2.920000	ug/L	-3	50		
Manganese	10.00000	9.810000	ug/L	-2	50		
Molybdenum	20.00000	16.90000	ug/L	-16	50		
Nickel	20.00000	18.80000	ug/L	-6	50		
Selenium	5.000000	7.220000	ug/L	44	50		
Silver	5.000000	4.080000	ug/L	-18	50		
Thallium	5.000000	6.350000	ug/L	27	50		
Vanadium	10.00000	10.00000	ug/L	0	50		
Zinc	20.00000	20.30000	ug/L	2	50		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699014

Run Name :
Filename : tr211976

Injected : 31-JUL-2003 08:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	482.5000	ug/L	-4		10	
Antimony		500.0000	489.0000	ug/L	-2		10	
Arsenic		250.0000	260.0000	ug/L	4		10	
Barium		500.0000	502.0000	ug/L	0		10	
Beryllium		50.00000	51.50000	ug/L	3		10	
Cadmium		50.00000	50.70000	ug/L	1		10	
Calcium		1000.000	1053.000	ug/L	5		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	253.0000	ug/L	1		10	
Copper		100.0000	106.0000	ug/L	6		10	
Iron		500.0000	501.6000	ug/L	0		10	
Lead		250.0000	239.0000	ug/L	-4		10	
Magnesium		1000.000	1030.000	ug/L	3		10	
Manganese		50.00000	50.40000	ug/L	1		10	
Molybdenum		500.0000	485.0000	ug/L	-3		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	248.0000	ug/L	-1		10	
Silver		50.00000	51.10000	ug/L	2		10	
Thallium		250.0000	244.0000	ug/L	-2		10	
Titanium		500.0000	516.0000	ug/L	3		10	
Vanadium		250.0000	253.0000	ug/L	1		10	
Zinc		50.00000	51.70000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699026

Run Name :
Filename : tr211988

Injected : 31-JUL-2003 09:35
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.4000	ug/L	1	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	745.0000	ug/L	-1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1552.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	793.6000	ug/L	6	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1547.000	ug/L	3	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699038

Run Name :
Filename : tr212000

Injected : 31-JUL-2003 10:38
Caltpe :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	259.6000	ug/L	4	10	
Antimony		250.0000	275.0000	ug/L	10	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	252.0000	ug/L	1	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.00000	ug/L	0	10	
Calcium		500.0000	517.0000	ug/L	3	10	
Chromium		50.00000	51.30000	ug/L	3	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	54.90000	ug/L	10	10	
Iron		250.0000	273.7000	ug/L	9	10	
Lead		125.0000	130.0000	ug/L	4	10	
Magnesium		500.0000	519.5000	ug/L	4	10	
Manganese		25.00000	25.80000	ug/L	3	10	
Molybdenum		250.0000	254.0000	ug/L	2	10	
Nickel		125.0000	128.0000	ug/L	2	10	
Selenium		125.0000	130.0000	ug/L	4	10	
Silver		25.00000	25.40000	ug/L	2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	266.0000	ug/L	6	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.40000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699050

Run Name :
Filename : tr212012

Injected : 31-JUL-2003 11:45
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	506.4000	ug/L	1	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	499.0000	ug/L	0	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	49.60000	ug/L	-1	10	
Calcium		1000.000	960.6000	ug/L	-4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	475.4000	ug/L	-5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1011.000	ug/L	1	10	
Manganese		50.00000	48.90000	ug/L	-2	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	510.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.00000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699062

Run Name :
Filename : tr212024

Injected : 31-JUL-2003 12:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	757.5000	ug/L	1	10	
Antimony		750.0000	774.0000	ug/L	3	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	77.60000	ug/L	3	10	
Cadmium		75.00000	75.60000	ug/L	1	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	731.4000	ug/L	-2	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1577.000	ug/L	5	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	739.0000	ug/L	-1	10	
Nickel		375.0000	383.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	72.90000	ug/L	-3	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	757.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	77.10000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699074

Run Name :
Filename : tr212036

Injected : 31-JUL-2003 13:42
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	506.8000	ug/L	1	10	
Antimony		500.0000	504.0000	ug/L	1	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	926.8000	ug/L	-7	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	457.3000	ug/L	-9	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	985.0000	ug/L	-2	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699084

Run Name :
Filename : tr212046

Injected : 31-JUL-2003 14:29
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	795.5000	ug/L	6		10	
Antimony		750.0000	790.0000	ug/L	5		10	
Arsenic		375.0000	390.0000	ug/L	4		10	
Barium		750.0000	741.0000	ug/L	-1		10	
Beryllium		75.00000	76.50000	ug/L	2		10	
Cadmium		75.00000	74.20000	ug/L	-1		10	
Calcium		1500.000	1464.000	ug/L	-2		10	
Chromium		150.0000	150.0000	ug/L	0		10	
Cobalt		375.0000	369.0000	ug/L	-2		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	729.5000	ug/L	-3		10	
Lead		375.0000	356.0000	ug/L	-5		10	
Magnesium		1500.000	1513.000	ug/L	1		10	
Manganese		75.00000	71.40000	ug/L	-5		10	
Molybdenum		750.0000	729.0000	ug/L	-3		10	
Nickel		375.0000	378.0000	ug/L	1		10	
Selenium		375.0000	374.0000	ug/L	0		10	
Silver		75.00000	71.70000	ug/L	-4		10	
Thallium		375.0000	355.0000	ug/L	-5		10	
Titanium		750.0000	748.0000	ug/L	0		10	
Vanadium		375.0000	366.0000	ug/L	-2		10	
Zinc		75.00000	75.30000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699096

Run Name :
Filename : tr212058

Injected : 31-JUL-2003 15:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	537.7000	ug/L	8	10	
Antimony		500.0000	467.0000	ug/L	-7	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	911.5000	ug/L	-9	10	
Chromium		100.0000	98.70000	ug/L	-1	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	524.0000	ug/L	5	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	993.8000	ug/L	-1	10	
Manganese		50.00000	47.90000	ug/L	-4	10	
Molybdenum		500.0000	481.0000	ug/L	-4	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	48.40000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	51.90000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699108

Run Name :
Filename : tr212070

Injected : 31-JUL-2003 16:08
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	510.2000	ug/L	2	10	
Antimony		500.0000	476.0000	ug/L	-5	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	1000.000	ug/L	0	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	546.6000	ug/L	9	10	
Lead		250.0000	236.0000	ug/L	-6	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	49.10000	ug/L	-2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.10000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699120

Run Name :
Filename : tr212082

Injected : 31-JUL-2003 17:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	773.1000	ug/L	3	10	
Antimony		750.0000	826.0000	ug/L	10	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.70000	ug/L	2	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1456.000	ug/L	-3	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	795.2000	ug/L	6	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	71.80000	ug/L	-4	10	
Thallium		375.0000	370.0000	ug/L	-1	10	
Titanium		750.0000	756.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	75.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699132

Run Name :
Filename : tr212095

Injected : 31-JUL-2003 18:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.1000	ug/L	2	10	
Antimony		750.0000	768.0000	ug/L	2	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1508.000	ug/L	1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	748.4000	ug/L	0	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1576.000	ug/L	5	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	709.0000	ug/L	-5	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	365.0000	ug/L	-3	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699139

Run Name :
Filename : tr212103

Injected : 31-JUL-2003 19:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	777.1000	ug/L	4	10	
Antimony		750.0000	813.0000	ug/L	8	10	
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	725.0000	ug/L	-3	10	
Beryllium		75.00000	74.70000	ug/L	0	10	
Cadmium		75.00000	72.50000	ug/L	-3	10	
Calcium		1500.000	1430.000	ug/L	-5	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	717.1000	ug/L	-4	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1492.000	ug/L	-1	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	719.0000	ug/L	-4	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	72.70000	ug/L	-3	10	
Thallium		375.0000	343.0000	ug/L	-9	10	
Titanium		750.0000	736.0000	ug/L	-2	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	74.30000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699147

Run Name :
Filename : tr212111

Injected : 31-JUL-2003 19:51
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	530.8000	ug/L	6	10	
Antimony		500.0000	422.0000	ug/L	-16	10	1 ***
Arsenic		250.0000	243.0000	ug/L	-3	10	
Barium		500.0000	487.0000	ug/L	-3	10	
Beryllium		50.00000	48.40000	ug/L	-3	10	
Cadmium		50.00000	46.80000	ug/L	-6	10	
Calcium		1000.000	947.5000	ug/L	-5	10	
Chromium		100.0000	105.0000	ug/L	5	10	
Cobalt		250.0000	237.0000	ug/L	-5	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	631.2000	ug/L	26	10	1 ***
Lead		250.0000	227.0000	ug/L	-9	10	
Magnesium		1000.000	951.7000	ug/L	-5	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	459.0000	ug/L	-8	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	234.0000	ug/L	-6	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	219.0000	ug/L	-12	10	1 ***
Titanium		500.0000	489.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	47.00000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699159

Run Name :
Filename : tr212123

Injected : 31-JUL-2003 20:52
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	847.8000	ug/L	13	10	1 ***
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	72.80000	ug/L	-3	10	
Cadmium		75.00000	72.00000	ug/L	-4	10	
Calcium		1500.000	1392.000	ug/L	-7	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	821.6000	ug/L	10	10	
Lead		375.0000	346.0000	ug/L	-8	10	
Magnesium		1500.000	1461.000	ug/L	-3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	702.0000	ug/L	-6	10	
Nickel		375.0000	362.0000	ug/L	-3	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	73.40000	ug/L	-2	10	
Thallium		375.0000	336.0000	ug/L	-10	10	
Titanium		750.0000	728.0000	ug/L	-3	10	
Vanadium		375.0000	357.0000	ug/L	-5	10	
Zinc		75.00000	70.90000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699170

Run Name :
Filename : tr212134

Injected : 31-JUL-2003 21:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	557.3000	ug/L	11	10	1 ***
Antimony		500.0000	428.0000	ug/L	-14	10	1 ***
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	47.90000	ug/L	-4	10	
Calcium		1000.000	878.8000	ug/L	-12	10	1 ***
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	98.80000	ug/L	-1	10	
Iron		500.0000	560.5000	ug/L	12	10	1 ***
Lead		250.0000	232.0000	ug/L	-7	10	
Magnesium		1000.000	937.8000	ug/L	-6	10	
Manganese		50.00000	47.70000	ug/L	-5	10	
Molybdenum		500.0000	460.0000	ug/L	-8	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	227.0000	ug/L	-9	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	57.50000	ug/L	15	10	1 ***

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699182

Run Name :
Filename : tr212146

Injected : 31-JUL-2003 22:47
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	841.8000	ug/L	12	10	1 ***
Antimony		750.0000	735.0000	ug/L	-2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	73.70000	ug/L	-2	10	
Cadmium		75.00000	72.70000	ug/L	-3	10	
Calcium		1500.000	1384.000	ug/L	-8	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	810.0000	ug/L	8	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1454.000	ug/L	-3	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	683.0000	ug/L	-9	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	737.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699195

Run Name :
Filename : tr212159

Injected : 31-JUL-2003 23:55
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	657.2000	ug/L	31	10	1 ***
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	944.4000	ug/L	-6	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	614.8000	ug/L	23	10	1 ***
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1031.000	ug/L	3	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.00000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699003
Filename: tr211964

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 31-JUL-2003 07:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[6.6100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1390]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	[29.600]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4150]	10.00000	ug/L	<RL	
Copper	[1.0600]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.2460]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	[0.0200]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.0480]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699015
Filename: tr211977

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 08:43

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[19.200]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.2730]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.0330]	5.000000	ug/L	<	RL
Calcium	[78.970]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[2.9200]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.7400]	3.000000	ug/L	<	RL
Magnesium	[0.1579]	500.0000	ug/L	<	RL
Manganese	[0.0900]	10.00000	ug/L	<	RL
Molybdenum	[4.5700]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[4.1200]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.5800]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.4650]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699027
Filename: tr211989

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 09:47

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.1360]	5.000000	ug/L	<RL	
Barium	[0.0950]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1650]	5.000000	ug/L	<RL	
Calcium	[75.650]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2480]	10.00000	ug/L	<RL	
Copper	[2.9800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.8800]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[0.3940]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699039
Filename: tr212001

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 10:55

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1680]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.6420]	10.00000	ug/L	<RL	
Copper	[2.6400]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[1.4900]	20.00000	ug/L	<RL	
Nickel	[0.0340]	20.00000	ug/L	<RL	
Selenium	[2.0000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.9900]	10.00000	ug/L	<RL	
Vanadium	[0.0250]	10.00000	ug/L	<RL	
Zinc	[1.5900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699051
Filename: tr212013

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 11:52

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[19.570]	100.0000	ug/L	<	RL
Antimony	[3.7000]	60.00000	ug/L	<	RL
Arsenic	[2.5100]	5.000000	ug/L	<	RL
Barium	[0.0900]	10.00000	ug/L	<	RL
Beryllium	[0.7220]	2.000000	ug/L	<	RL
Cadmium	[0.2190]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.4420]	10.00000	ug/L	<	RL
Copper	[1.4800]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.0110]	10.00000	ug/L	<	RL
Molybdenum	[2.3800]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[1.3100]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.5900]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.9630]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699063
Filename: tr212025

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 12:43

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[43.430]	100.0000	ug/L	<RL	
Antimony	[4.9800]	60.00000	ug/L	<RL	
Arsenic	[2.0200]	5.000000	ug/L	<RL	
Barium	[0.1570]	10.00000	ug/L	<RL	
Beryllium	[1.5000]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2540]	10.00000	ug/L	<RL	
Copper	[0.9300]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.7300]	3.000000	ug/L	<RL	
Magnesium	[15.600]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[5.4100]	20.00000	ug/L	<RL	
Nickel	[0.1520]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1540]	5.000000	ug/L	<RL	
Thallium	[4.1100]	5.000000	ug/L	<RL	
Titanium	[3.6600]	10.00000	ug/L	<RL	
Vanadium	[0.0370]	10.00000	ug/L	<RL	
Zinc	[1.8100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699075
Filename: tr212037

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 13:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[24.400]	60.00000	ug/L	<	RL
Arsenic	[0.3090]	5.000000	ug/L	<	RL
Barium	[0.1530]	10.00000	ug/L	<	RL
Beryllium	[0.0200]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[0.5926]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.3570]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[2.9780]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[6.4100]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[3.8400]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.2000]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699085
Filename: tr212047

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 14:34

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[44.790]	100.0000	ug/L	<	RL
Antimony	[9.8400]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1410]	10.00000	ug/L	<	RL
Beryllium	[0.9540]	2.000000	ug/L	<	RL
Cadmium	[0.4350]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.5570]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[13.400]	100.0000	ug/L	<	RL
Lead	[0.3050]	3.000000	ug/L	<	RL
Magnesium	[15.400]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[9.4100]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[2.1300]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.8700]	5.000000	ug/L	<	RL
Titanium	[4.3700]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.7500]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699097
Filename: tr212059

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 15:24

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[71.800]	100.0000	ug/L	<RL	
Antimony	[11.400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2800]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.4050]	5.000000	ug/L	<RL	
Calcium	[5.9240]	500.0000	ug/L	<RL	
Chromium	[0.3530]	10.00000	ug/L	<RL	
Cobalt	[0.6800]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[26.160]	100.0000	ug/L	<RL	
Lead	[2.7700]	3.000000	ug/L	<RL	
Magnesium	[9.3990]	500.0000	ug/L	<RL	
Manganese	[0.4530]	10.00000	ug/L	<RL	
Molybdenum	[7.7700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1980]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.2900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.2800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699109
Filename: tr212071

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 16:18

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[5.9670]	100.0000	ug/L	<RL	
Antimony	[49.100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2430]	10.00000	ug/L	<RL	
Beryllium	[0.0300]	2.000000	ug/L	<RL	
Cadmium	[0.1220]	5.000000	ug/L	<RL	
Calcium	[1.3260]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[1.0600]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.1430]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.4370]	500.0000	ug/L	<RL	
Manganese	[0.2190]	10.00000	ug/L	<RL	
Molybdenum	[2.9100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.4300]	5.000000	ug/L	<RL	
Silver	[0.5470]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.6090]	10.00000	ug/L	<RL	
Vanadium	[0.1360]	10.00000	ug/L	<RL	
Zinc	[2.5200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699121
Filename: tr212083

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 17:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[29.590]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.4750]	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	[0.9160]	2.000000	ug/L	<RL	
Cadmium	[0.1030]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2520]	10.00000	ug/L	<RL	
Cobalt	[0.1530]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.730]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[8.4290]	500.0000	ug/L	<RL	
Manganese	[0.3260]	10.00000	ug/L	<RL	
Molybdenum	[4.2500]	20.00000	ug/L	<RL	
Nickel	[0.1990]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.5260]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.8200]	10.00000	ug/L	<RL	
Vanadium	[0.1360]	10.00000	ug/L	<RL	
Zinc	[2.7100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699133
Filename: tr212096

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 18:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[13.700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1430]		10.00000	ug/L	<	RL
Beryllium	[0.1250]		2.000000	ug/L	<	RL
Cadmium	[0.3880]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.2760]		10.00000	ug/L	<	RL
Cobalt	[0.9370]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[17.740]		500.0000	ug/L	<	RL
Manganese	[0.2150]		10.00000	ug/L	<	RL
Molybdenum	[0.6220]		20.00000	ug/L	<	RL
Nickel	[0.0350]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[1.3600]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[9.5900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[8.9100]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699140
Filename: tr212104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 19:15

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[77.770]	100.0000	ug/L	<RL	
Antimony	[44.800]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.9650]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[10.160]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[28.760]	500.0000	ug/L	<RL	
Manganese	[0.3540]	10.00000	ug/L	<RL	
Molybdenum	[3.5000]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.5600]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[6.2600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699149
Filename: tr212113

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 20:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[42.470]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.8180]	5.000000	ug/L	<RL		
Barium	[0.2070]	10.00000	ug/L	<RL		
Beryllium	[0.4450]	2.000000	ug/L	<RL		
Cadmium	[0.0060]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[7.6700]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	104.5000	100.0000	ug/L	<RL	d	***
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.5910]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.4930]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	6.230000	5.000000	ug/L	<RL	d	***
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699161
Filename: tr212125

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 21:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[62.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0710]	10.00000	ug/L	<RL	
Beryllium	[0.9420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[7.4700]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	116.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5050]	10.00000	ug/L	<RL	
Molybdenum	[1.2000]	20.00000	ug/L	<RL	
Nickel	[0.4170]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699172
Filename: tr212136

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 22:00

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[67.230]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0170]	10.00000	ug/L	<RL	
Beryllium	[1.3200]	2.000000	ug/L	<RL	
Cadmium	[0.0440]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[8.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	128.8000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.6690]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699184
Filename: tr212148

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 23:02

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[72.760]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0230]	10.00000	ug/L	<RL	
Beryllium	[1.1800]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	101.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5910]	10.00000	ug/L	<RL	
Molybdenum	[0.6930]	20.00000	ug/L	<RL	
Nickel	[0.9090]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	34.60000	20.00000	ug/L	<RL	d ***

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699197
Filename: tr212161

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 00:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[85.600]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.1100]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.4200]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	247.8000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[1.4700]	10.00000	ug/L	<RL	
Molybdenum	[0.8780]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699005

Run Name :
Filename : tr211966

Injected : 31-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	498200.0	ug/L	0			
Antimony	500.0000	511.0000	ug/L	2	20		
Arsenic	500.0000	529.0000	ug/L	6	20		
Barium	500.0000	491.0000	ug/L	-2	20		
Beryllium	500.0000	512.0000	ug/L	2	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	484000.0	ug/L	-3			
Chromium	500.0000	481.0000	ug/L	-4	20		
Cobalt	500.0000	481.0000	ug/L	-4	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	187700.0	ug/L	-6			
Lead	1000.000	833.0000	ug/L	-17	20		
Magnesium	500000.0	523000.0	ug/L	5			
Manganese	500.0000	497.0000	ug/L	-1	20		
Molybdenum	500.0000	456.0000	ug/L	-9	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	492.0000	ug/L	-2	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	456.0000	ug/L	-9	20		
Titanium	20000.00	2040.000	ug/L	-90			
Vanadium	500.0000	496.0000	ug/L	-1	20		
Zinc	1000.000	998.0000	ug/L	0	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699083

Run Name :
Filename : tr212045

Injected : 31-JUL-2003 14:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	509200.0	ug/L	2			
Antimony	500.0000	490.0000	ug/L	-2	20		
Arsenic	500.0000	559.0000	ug/L	12	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	506.0000	ug/L	1	20		
Cadmium	1000.000	1000.000	ug/L	0	20		
Calcium	500000.0	455700.0	ug/L	-9			
Chromium	500.0000	491.0000	ug/L	-2	20		
Cobalt	500.0000	490.0000	ug/L	-2	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	181500.0	ug/L	-9			
Lead	1000.000	878.0000	ug/L	-12	20		
Magnesium	500000.0	517600.0	ug/L	4			
Manganese	500.0000	487.0000	ug/L	-3	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1060.000	ug/L	6	20		
Selenium	500.0000	520.0000	ug/L	4	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	494.0000	ug/L	-1	20		
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	499.0000	ug/L	0	20		
Zinc	1000.000	1040.000	ug/L	4	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699138

Run Name :
Filename : tr212101

Injected : 31-JUL-2003 18:56
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	494800.0	ug/L	-1		
Antimony	500.0000	496.0000	ug/L	-1	20	
Arsenic	500.0000	600.0000	ug/L	20	20	
Barium	500.0000	534.0000	ug/L	7	20	
Beryllium	500.0000	547.0000	ug/L	9	20	
Cadmium	1000.000	1110.000	ug/L	11	20	
Calcium	500000.0	521800.0	ug/L	4		
Chromium	500.0000	543.0000	ug/L	9	20	
Cobalt	500.0000	537.0000	ug/L	7	20	
Copper	500.0000	560.0000	ug/L	12	20	
Iron	200000.0	213000.0	ug/L	7		
Lead	1000.000	1000.000	ug/L	0	20	
Magnesium	500000.0	583000.0	ug/L	17		
Manganese	500.0000	551.0000	ug/L	10	20	
Molybdenum	500.0000	528.0000	ug/L	6	20	
Nickel	1000.000	1200.000	ug/L	20	20	
Selenium	500.0000	573.0000	ug/L	15	20	
Silver	1000.000	963.0000	ug/L	-4	20	
Thallium	500.0000	536.0000	ug/L	7	20	
Titanium	20000.00	2220.000	ug/L	-89		
Vanadium	500.0000	549.0000	ug/L	10	20	
Zinc	1000.000	1110.000	ug/L	11	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699158

Run Name :
Filename : tr212122

Injected : 31-JUL-2003 20:43
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	535100.0	ug/L	7		
Antimony	500.0000	475.0000	ug/L	-5	20	
Arsenic	500.0000	553.0000	ug/L	11	20	
Barium	500.0000	510.0000	ug/L	2	20	
Beryllium	500.0000	476.0000	ug/L	-5	20	
Cadmium	1000.000	957.0000	ug/L	-4	20	
Calcium	500000.0	432800.0	ug/L	-13		
Chromium	500.0000	481.0000	ug/L	-4	20	
Cobalt	500.0000	474.0000	ug/L	-5	20	
Copper	500.0000	525.0000	ug/L	5	20	
Iron	200000.0	180200.0	ug/L	-10		
Lead	1000.000	871.0000	ug/L	-13	20	
Magnesium	500000.0	503200.0	ug/L	1		
Manganese	500.0000	479.0000	ug/L	-4	20	
Molybdenum	500.0000	478.0000	ug/L	-4	20	
Nickel	1000.000	1010.000	ug/L	1	20	
Selenium	500.0000	516.0000	ug/L	3	20	
Silver	1000.000	1070.000	ug/L	7	20	
Thallium	500.0000	465.0000	ug/L	-7	20	
Titanium	20000.00	2040.000	ug/L	-90		
Vanadium	500.0000	498.0000	ug/L	0	20	
Zinc	1000.000	1000.000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699194

Run Name :
Filename : tr212158

Injected : 31-JUL-2003 23:48
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	542300.0	ug/L	8			
Antimony	500.0000	485.0000	ug/L	-3	20		
Arsenic	500.0000	563.0000	ug/L	13	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	482.0000	ug/L	-4	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	435600.0	ug/L	-13			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	488.0000	ug/L	-2	20		
Copper	500.0000	531.0000	ug/L	6	20		
Iron	200000.0	184600.0	ug/L	-8			
Lead	1000.000	892.0000	ug/L	-11	20		
Magnesium	500000.0	514500.0	ug/L	3			
Manganese	500.0000	493.0000	ug/L	-1	20		
Molybdenum	500.0000	477.0000	ug/L	-5	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	528.0000	ug/L	6	20		
Silver	1000.000	1080.000	ug/L	8	20		
Thallium	500.0000	474.0000	ug/L	-5	20		
Titanium	20000.00	2070.000	ug/L	-90			
Vanadium	500.0000	507.0000	ug/L	1	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211962	CS				31-JUL-2003 06:59	1.0	1.0				1	
002	tr211963	ICV				31-JUL-2003 07:16	1.0	1.0				2	
003	tr211964	ICB				31-JUL-2003 07:21	1.0	1.0				3	
004	tr211965	CRI				31-JUL-2003 07:35	1.0	1.0				4	4:MG=523000
005	tr211966	ICSAB				31-JUL-2003 07:45	1.0	1.0					
006	tr211967	BLANK				31-JUL-2003 07:50	1.0	50.0	2				
007	tr211968	BS				31-JUL-2003 07:57	1.0	50.0					
008	tr211969	BSD				31-JUL-2003 08:01	1.0	50.0					
009	tr211970	MSS				31-JUL-2003 08:06	1.0	47.39336	4				4:FE=273900
010	tr211971	SER				31-JUL-2003 08:12	5.0	47.39336	2				
011	tr211972	MS				31-JUL-2003 08:15	1.0	41.66667		1			5:FE=318300
012	tr211973	MSD				31-JUL-2003 08:19	1.0	49.75124		1			5:FE=270800
013	tr211974	SAMPLE				31-JUL-2003 08:25	1.0	48.30918					1:AL=112300
014	tr211976	CCV				31-JUL-2003 08:35	1.0	1.0				5	
015	tr211977	CCB				31-JUL-2003 08:43	1.0	1.0					
016	tr211978	SAMPLE				31-JUL-2003 08:47	1.0	45.66210					1:AL=1184000
017	tr211979	SAMPLE				31-JUL-2003 08:51	1.0	48.07692					2:AL=132200
018	tr211980	SAMPLE				31-JUL-2003 08:55	1.0	48.07692					3:FE=191000
019	tr211981	SAMPLE				31-JUL-2003 09:01	1.0	45.24887					5:CA=256000
020	tr211982	SAMPLE				31-JUL-2003 09:05	1.0	312.50					
021	tr211983	SAMPLE				31-JUL-2003 09:09	1.0	222.2222					
022	tr211984	SAMPLE				31-JUL-2003 09:16	1.0	50.0					4:FE=344300
023	tr211985	SAMPLE				31-JUL-2003 09:20	1.0	45.24887					5:FE=435400
024	tr211986	SAMPLE				31-JUL-2003 09:24	1.0	49.01961					4:FE=338100
025	tr211987	SAMPLE				31-JUL-2003 09:28	1.0	43.47826					5:FE=405100
026	tr211988	CCV				31-JUL-2003 09:35	1.0	1.0				6	
027	tr211989	CCB				31-JUL-2003 09:47	1.0	1.0					
028	tr211990	SER				31-JUL-2003 09:51	5.0	41.49378		1			
029	tr211991	SAMPLE				31-JUL-2003 09:55	1.0	45.24887	1				5:CA=249900
030	tr211992	SAMPLE				31-JUL-2003 09:59	1.0	312.50					
031	tr211993	SAMPLE				31-JUL-2003 10:03	1.0	40.65041					4:FE=409200
032	tr211994	SAMPLE				31-JUL-2003 10:07	1.0	46.08295					4:FE=463500

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: mev Date: 7/3/03
Page 1 of 7

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's	Used	>LR
033	tr211995	SAMPLE	166620-010	83303	Soil	31-JUL-2003 10:11	1.0	46.29630					3:FE=577200	
034	tr211996	SAMPLE	166620-011	83303	Soil	31-JUL-2003 10:15	1.0	43.10345					4:FE=638600	
035	tr211997	SAMPLE	166620-012	83303	Soil	31-JUL-2003 10:19	1.0	40.16064					3:FE=710000	
036	tr211998	SAMPLE	166620-013	83303	Soil	31-JUL-2003 10:22	1.0	48.54369	1				3:FE=476600	
037	tr211999	SAMPLE	166620-014	83303	Soil	31-JUL-2003 10:26	1.0	39.06250					3:FE=635500	
038	tr212000	CCV				31-JUL-2003 10:38	1.0	1.0				7		
039	tr212001	CCB				31-JUL-2003 10:55	1.0	1.0					3:FE=585500	
040	tr212002	SAMPLE	166620-010	83303	Soil	31-JUL-2003 11:02	1.0	46.29630					3:FE=481700	
041	tr212003	SAMPLE	166620-013	83303	Soil	31-JUL-2003 11:06	1.0	48.54369					2:FE=218200	
042	tr212004	MS	QC220620	83259	Soil	31-JUL-2003 11:10	1.0	38.75969					2:FE=207400	
043	tr212005	MSD	QC220621	83259	Soil	31-JUL-2003 11:14	1.0	48.07692					3:FE=201100	
044	tr212006	SAMPLE	166561-005	83259	Soil	31-JUL-2003 11:17	1.0	46.08295					1:FE=169800	
045	tr212007	SAMPLE	166561-016	83259	Soil	31-JUL-2003 11:21	1.0	48.07692	2					
046	tr212008	BLANK	QC220254	83173	Water	31-JUL-2003 11:26	1.0	1.0						
047	tr212009	BS	QC220255	83173	Water	31-JUL-2003 11:30	1.0	1.0						
048	tr212010	BSD	QC220256	83173	Water	31-JUL-2003 11:34	1.0	1.0						
049	tr212011	BLANK	QC220254	83173	Water	31-JUL-2003 11:41	1.0	1.0						
050	tr212012	CCV				31-JUL-2003 11:45	1.0	1.0				5		
051	tr212013	CCB				31-JUL-2003 11:52	1.0	1.0						
052	tr212014	MSS	166504-001	83173	Water	31-JUL-2003 12:00	1.0	1.0	1					
053	tr212015	SER	QC220259	83173	Water	31-JUL-2003 12:04	5.0	1.0						
054	tr212016	MSS	166504-001	83173	Water	31-JUL-2003 12:08	1.0	1.0						
055	tr212017	MS	QC220257	83173	Water	31-JUL-2003 12:11	1.0	1.0						
056	tr212018	MSD	QC220258	83173	Water	31-JUL-2003 12:15	1.0	1.0						
057	tr212019	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:18	1.0	1.0	1				2:CA=700700	
058	tr212020	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:22	1.0	1.0					2:CA=689600	
059	tr212021	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:25	1.0	1.0	2				2:MG=616900	
060	tr212022	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:29	1.0	1.0	2				2:MG=611300	
061	tr212023	SAMPLE	166504-002	83173	Water	31-JUL-2003 12:32	1.0	1.0						
062	tr212024	CCV				31-JUL-2003 12:37	1.0	1.0				6		
063	tr212025	CCB				31-JUL-2003 12:43	1.0	1.0						
064	tr212026	SAMPLE	166504-003	83173	Water	31-JUL-2003 12:47	1.0	1.0						

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Meivh Date: 7/31/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212027	SAMPLE	166504-004	83173	Water	31-JUL-2003 12:50	1.0	1.0	3			2:MG=1416000	
066	tr212028	BLANK	QC220752	83297	Soil	31-JUL-2003 12:54	1.0	50.0	1				
067	tr212029	BS	QC220753	83297	Soil	31-JUL-2003 12:57	1.0	50.0					
068	tr212030	BSD	QC220754	83297	Soil	31-JUL-2003 13:01	1.0	50.0					
069	tr212031	MSS	166603-001	83297	Soil	31-JUL-2003 13:04	1.0	43.29004	4			4:MG=1632000	
070	tr212032	MS	QC220755	83297	Soil	31-JUL-2003 13:08	1.0	46.51163		1		4:MG=1487000	
071	tr212033	MSD	QC220756	83297	Soil	31-JUL-2003 13:11	1.0	48.78049		2		4:MG=1256000	
072	tr212034	SAMPLE	166603-002	83297	Soil	31-JUL-2003 13:15	1.0	42.91845				6:MG=2059000	
073	tr212035	SAMPLE	166603-003	83297	Soil	31-JUL-2003 13:18	1.0	50.0				6:FE=1948000	
074	tr212036	CCV				31-JUL-2003 13:42	1.0	1.0				5	
075	tr212037	CCB				31-JUL-2003 13:47	1.0	1.0					
076	tr212038	BLANK	QC220782	83302	Water	31-JUL-2003 13:58	1.0	1.0					
077	tr212039	BS	QC220783	83302	Water	31-JUL-2003 14:01	1.0	1.0					
078	tr212040	BSD	QC220784	83302	Water	31-JUL-2003 14:05	1.0	1.0					
079	tr212041	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:08	1.0	1.0	1				
080	tr212042	SAMPLE	166620-007	83302	Water	31-JUL-2003 14:12	1.0	1.0					
081	tr212043	SAMPLE	166585-005	83297	Miscel	31-JUL-2003 14:15	1.0	44.24779					
082	tr212044	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:19	1.0	1.0					
083	tr212045	ICSAB				31-JUL-2003 14:23	1.0	1.0					
084	tr212046	CCV				31-JUL-2003 14:29	1.0	1.0					
085	tr212047	CCB				31-JUL-2003 14:34	1.0	1.0					
086	tr212048	SAMPLE	166398-008	83327	Water	31-JUL-2003 14:38	1.0	1.0					
087	tr212049	BLANK	QC220746	83296	Soil	31-JUL-2003 14:42	1.0	50.0					
088	tr212050	BS	QC220747	83296	Soil	31-JUL-2003 14:49	1.0	50.0					
089	tr212051	BSD	QC220748	83296	Soil	31-JUL-2003 14:53	1.0	50.0					
090	tr212052	MSS	166561-022	83296	Soil	31-JUL-2003 14:57	1.0	42.91845	4			4:FE=236000	
091	tr212053	SER	QC220751	83296	Soil	31-JUL-2003 15:00	5.0	42.91845	1	2			
092	tr212054	MS	QC220749	83296	Soil	31-JUL-2003 15:04	1.0	38.91051				4:CA=224300	
093	tr212055	MSD	QC220750	83296	Soil	31-JUL-2003 15:07	1.0	43.29004				2:FE=188900	
094	tr212056	SAMPLE	166561-024	83296	Soil	31-JUL-2003 15:11	1.0	43.29004				3:FE=232700	
095	tr212057	SAMPLE	166561-025	83296	Soil	31-JUL-2003 15:15	1.0	44.05286				4:FE=280400	
096	tr212058	CCV				31-JUL-2003 15:20	1.0	1.0				5	

Stds used: 1=03WSI109 2=03WSI149 3=03WS0897 4=03WSI089 5=03WSI150 6=03WSI151 7=03WSI152 8=03SS286 9=03SS287 10=03SSI177 11=03SSI17

Analyst: Mei Wu Date: 7/31/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699

Instrument: MET07

TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr212059	CCB				31-JUL-2003 15:24	1.0	1.0					
098	tr212060	SAMPLE	166561-026	83296	Soil	31-JUL-2003 15:31	1.0	47.16981				3:FE=258300	
099	tr212061	SAMPLE	166561-027	83296	Soil	31-JUL-2003 15:34	1.0	44.44444				3:FE=246000	
100	tr212062	SAMPLE	166561-031	83296	Soil	31-JUL-2003 15:38	1.0	46.72897				3:FE=231100	
101	tr212063	SAMPLE	166561-032	83296	Soil	31-JUL-2003 15:41	1.0	46.29630				3:FE=189300	
102	tr212064	SAMPLE	166561-033	83296	Soil	31-JUL-2003 15:45	1.0	50.0				3:FE=194900	
103	tr212065	SAMPLE	166561-034	83296	Soil	31-JUL-2003 15:48	1.0	44.64286				2:FE=228200	
104	tr212066	SAMPLE	166561-036	83296	Soil	31-JUL-2003 15:51	1.0	39.52569				4:FE=290800	
105	tr212067	SAMPLE	166561-037	83296	Soil	31-JUL-2003 15:55	1.0	41.8410				3:FE=238000	
106	tr212068	SAMPLE	166561-038	83296	Soil	31-JUL-2003 15:58	1.0	46.94836				2:FE=250000	
107	tr212069	SAMPLE	166561-039	83296	Soil	31-JUL-2003 16:02	1.0	46.08295				3:FE=236000	
108	tr212070	CCV				31-JUL-2003 16:08	1.0	1.0				5	
109	tr212071	CCB				31-JUL-2003 16:18	1.0	1.0					
110	tr212072	SAMPLE	166398-008	83327	Water	31-JUL-2003 16:24	1.0	1.0				8 9	4:FE=247200
111	tr212073	PDS	QC220908	83296	Soil	31-JUL-2003 16:28	1.0	42.91845					2:FE=247400
112	tr212074	SAMPLE	166561-038	83296	Soil	31-JUL-2003 16:31	1.0	46.94836	1				3:FE=251100
113	tr212075	SAMPLE	166561-040	83296	Soil	31-JUL-2003 16:35	1.0	44.44444					4:FE=236900
114	tr212076	SAMPLE	166561-041	83296	Soil	31-JUL-2003 16:38	1.0	50.0					3:FE=210200
115	tr212077	SAMPLE	166561-043	83296	Soil	31-JUL-2003 16:42	1.0	49.26108	1				3:FE=506800
116	tr212078	SAMPLE	166561-044	83296	Soil	31-JUL-2003 16:45	1.0	49.50495					3:FE=229100
117	tr212079	SAMPLE	166561-045	83296	Soil	31-JUL-2003 16:49	1.0	45.45455					3:FE=217500
118	tr212080	SAMPLE	166561-046	83296	Soil	31-JUL-2003 16:52	1.0	47.84689	1				3:FE=305300
119	tr212081	SAMPLE	166561-047	83296	Soil	31-JUL-2003 16:56	1.0	37.17472				6	
120	tr212082	CCV				31-JUL-2003 17:01	1.0	1.0					
121	tr212083	CCB				31-JUL-2003 17:07	1.0	1.0					
122	tr212084	BLANK	QC220724	83290	Water	31-JUL-2003 17:11	1.0	1.0					
123	tr212085	BS	QC220725	83290	Water	31-JUL-2003 17:17	1.0	1.0					
124	tr212086	BSD	QC220726	83290	Water	31-JUL-2003 17:21	1.0	1.0					2:MG=1883000
125	tr212087	MSS	166554-002	83290	Water	31-JUL-2003 17:25	1.0	1.0				2	2:MG=369600
126	tr212088	SER	QC220729	83290	Water	31-JUL-2003 17:29	5.0	1.0					2:MG=1829000
127	tr212089	MSS	166554-002	83290	Water	31-JUL-2003 17:32	1.0	1.0				3	2:MG=1920000
128	tr212091	MS	QC220727	83290	Water	31-JUL-2003 17:42	1.0	1.0				1	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: ADW Date: 7/21/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699

Instrument: MET07

TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
129	tr212092	MSD	QC220728	83290	Water	31-JUL-2003 17:45	1.0	1.0	1			2:MG=1914000	
130	tr212093	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:49	1.0	1.0	1			3:MG=3540000	
131	tr212094	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:53	1.0	1.0				3:MG=3536000	
132	tr212095	CCV				31-JUL-2003 18:06	1.0	1.0					6
133	tr212096	CCB				31-JUL-2003 18:37	1.0	1.0					
134	tr212097	SAMPLE	166561-043	83296	Soil	31-JUL-2003 18:40	1.0	49.26108	1			3:FE=245100	
135	tr212098	SAMPLE	166561-046	83296	Soil	31-JUL-2003 18:44	1.0	47.84689				3:FE=262000	
136	tr212099	MSS	166554-002	83290	Water	31-JUL-2003 18:47	20.0	1.0	3			1:MG=109700	
137	tr212100	PDS	QC220938	83290	Water	31-JUL-2003 18:52	1.0	1.0				2:MG=1947000	10 11
138	tr212101	ICSAB				31-JUL-2003 18:56	1.0	1.0				4:MG=583000	4
139	tr212103	CCV				31-JUL-2003 19:08	1.0	1.0					6
140	tr212104	CCB				31-JUL-2003 19:15	1.0	1.0					
141	tr212105	SAMPLE	166599-014	83290	Water	31-JUL-2003 19:23	1.0	1.0	1				
142	tr212106	SAMPLE	166560-022	83290	Water	31-JUL-2003 19:27	1.0	1.0	1				
143	tr212107	SAMPLE	166561-023	83290	Water	31-JUL-2003 19:31	1.0	1.0	1				
144	tr212108	SAMPLE	166561-028	83290	Water	31-JUL-2003 19:36	1.0	1.0	3			1:CA=147100	N
145	tr212109	SAMPLE	166604-001	83290	Water	31-JUL-2003 19:40	1.0	1.0				2:CA=246500	
146	tr212110	SAMPLE	166552-001	83290	Water	31-JUL-2003 19:44	1.0	1.0					5
147	tr212111	CCV				31-JUL-2003 19:51	1.0	1.0	3				
148	tr212112	X				31-JUL-2003 19:58	1.0	1.0					
149	tr212113	CCB				31-JUL-2003 20:02	1.0	1.0	2				
150	tr212114	SAMPLE	166552-002	83290	Water	31-JUL-2003 20:06	1.0	1.0				1:CA=450700	
151	tr212115	SAMPLE	166552-003	83290	Water	31-JUL-2003 20:11	1.0	1.0				1:CA=176800	
152	tr212116	SAMPLE	166552-004	83290	Water	31-JUL-2003 20:15	1.0	1.0	1				
153	tr212117	SAMPLE	166552-005	83290	Water	31-JUL-2003 20:19	1.0	1.0	1				
154	tr212118	SAMPLE	166552-006	83290	Water	31-JUL-2003 20:23	1.0	1.0				1:MG=102400	
155	tr212119	SAMPLE	166552-008	83290	Water	31-JUL-2003 20:28	1.0	1.0				3:CA=292300	
156	tr212120	SAMPLE	166552-009	83290	Water	31-JUL-2003 20:32	1.0	1.0				4:AL=535100	
157	tr212121	SAMPLE	166552-007	83290	Water	31-JUL-2003 20:36	1.0	1.0					
158	tr212122	ICSAB				31-JUL-2003 20:43	1.0	1.0	1				
159	tr212123	CCV				31-JUL-2003 20:52	1.0	1.0					6
160	tr212124	X				31-JUL-2003 20:59	1.0	1.0					

Stds used: 1=03WSI109 2=03WSI149 3=03WS0897 4=03WSI089 5=03WSI150 6=03WSI151 7=03WSI152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: McL Date: 7/12
Page 5 of 7

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
161	tr212125	CCB				31-JUL-2003	21:05 1.0	1.0	1					
162	tr212126	BLANK	QC220573	83247	TCLP L	31-JUL-2003	21:10 10.0	1.0	3					
163	tr212127	BS	QC220574	83247	TCLP L	31-JUL-2003	21:14 1.0	1.0	5					
164	tr212128	BSD	QC220575	83247	TCLP L	31-JUL-2003	21:18 1.0	1.0	5					
165	tr212129	MSS	166563-005	83247	TCLP L	31-JUL-2003	21:23 10.0	1.0	6					
166	tr212130	SEB	QC220935	83247	TCLP L	31-JUL-2003	21:26 50.0	1.0						
167	tr212131	SDUP	QC220576	83247	TCLP L	31-JUL-2003	21:32 10.0	1.0						
168	tr212132	SSPIKE	QC220577	83247	TCLP L	31-JUL-2003	21:36 10.0	1.0						
169	tr212133	SAMPLE	166557-001	83247	TCLP L	31-JUL-2003	21:41 10.0	1.0	2					
170	tr212134	CCV				31-JUL-2003	21:47 1.0	1.0	5					
171	tr212135	X				31-JUL-2003	21:55 1.0	1.0						
172	tr212136	CCB				31-JUL-2003	22:00 1.0	1.0	1					
173	tr212137	SAMPLE	166543-002	83173	Water	31-JUL-2003	22:05 1.0	1.0	2					
174	tr212138	SAMPLE	166543-004	83173	Water	31-JUL-2003	22:09 1.0	1.0	1					
175	tr212139	SAMPLE	166543-006	83173	Water	31-JUL-2003	22:13 1.0	1.0	2					
176	tr212140	SAMPLE	166543-008	83173	Water	31-JUL-2003	22:17 1.0	1.0	1					
177	tr212141	SAMPLE	166544-004	83173	Water	31-JUL-2003	22:22 1.0	1.0	1					
178	tr212142	SAMPLE	166544-005	83173	Water	31-JUL-2003	22:26 1.0	1.0						
179	tr212143	SAMPLE	166544-006	83173	Water	31-JUL-2003	22:30 1.0	1.0						
180	tr212144	SAMPLE	166544-007	83173	Water	31-JUL-2003	22:35 1.0	1.0						
181	tr212145	SAMPLE	166544-008	83173	Water	31-JUL-2003	22:39 1.0	1.0	1					
182	tr212146	CCV				31-JUL-2003	22:47 1.0	1.0						
183	tr212147	X				31-JUL-2003	22:54 1.0	1.0	1					
184	tr212148	CCB				31-JUL-2003	23:02 1.0	1.0	2					
185	tr212149	BLANK	QC220867	83326	Wipe	31-JUL-2003	23:06 1.0	50.0	3					
186	tr212150	BS	QC220868	83326	Wipe	31-JUL-2003	23:11 1.0	50.0						
187	tr212151	BSD	QC220869	83326	Wipe	31-JUL-2003	23:15 1.0	50.0	3					
188	tr212152	SAMPLE	166606-001	83326	Wipe	31-JUL-2003	23:21 1.0	50.0						
189	tr212153	SAMPLE	166606-002	83326	Wipe	31-JUL-2003	23:25 1.0	50.0						
190	tr212154	SAMPLE	166612-001	83337	Miscel	31-JUL-2003	23:29 1.0	46.29630						
191	tr212155	SAMPLE	166612-002	83337	Miscel	31-JUL-2003	23:34 1.0	39.06250						
192	tr212156	SAMPLE	166608-008	83337	Soil	31-JUL-2003	23:38 1.0	45.45455						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Mei Wu Date: 7/31/03
Page 6 of 7

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
193	tr212157	SAMPLE	166608-013	83337	Soil	31-JUL-2003 23:42	1.0	50.76142						2:FE=261200
194	tr212158	ICSAB				31-JUL-2003 23:48	1.0	1.0				4		4:Al=542300
195	tr212159	CCV				31-JUL-2003 23:55	1.0	1.0				5		
196	tr212160	X	rinse			01-AUG-2003 00:03	1.0	1.0						
197	tr212161	CCB				01-AUG-2003 00:07	1.0	1.0			1			

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Melvin Date: 7/31/03
Page 7 of 7

Standardization Rpt.

Method: 6010B
 Standard: blank
 Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	-.001	.000	-.001	.001	-.025	.001	.000
Dev	.001	.000	.000	.000	.000	.001	.000
%RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	-.000	-.007	.001	-.000	.000	-.000	-.002
Dev	.000	.000	.001	.001	.000	.000	.000
%RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.001	.000	-.000	.000	.006	.0325	-.0133
Dev	.001	.000	.000	.000	.000	.0000	.0000
%RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	-.0008	.0001	.000	.071			
Dev	.0001	.0001	.000	.000			
%RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

ethod: 6010B Standard: cst hi
 un Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

standardization

Report

08/01/03 05:56:54 AM

page 1

Method: 6010B

Slope = Conc(SIR)/IR

element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
2068	206.831	Multiple Standards	6625.80	4.25512	08/01/03 05:53:15	
206A	206.832	Multiple Standards	10861.1	-4.95256	08/01/03 05:53:15	
1890	189.042	Multiple Standards	12606.0	12.0996	08/01/03 05:53:15	
4934	493.409	Multiple Standards	180.343	- .106017	08/01/03 05:53:15	
3130	313.042	Multiple Standards	145.252	3.58223	08/01/03 05:53:15	
2265	226.502	Multiple Standards	424.876	- .420509	08/01/03 05:53:15	
2677	267.716	Multiple Standards	4035.62	-1.45267	08/01/03 05:53:15	
2286	228.616	Multiple Standards	3592.62	.689783	08/01/03 05:53:15	
3247	324.754	Multiple Standards	1698.73	11.3432	08/01/03 05:53:15	
2203	220.351	Multiple Standards	3210.65	-2.02149	08/01/03 05:53:15	
220A	220.352	Multiple Standards	3068.61	.349390	08/01/03 05:53:15	
2020	202.030	Multiple Standards	3588.89	- .796321	08/01/03 05:53:15	
2316	231.604	Multiple Standards	1287.52	.069626	08/01/03 05:53:15	
1960	196.021	Multiple Standards	12134.7	20.6758	08/01/03 05:53:15	
196A	196.022	Multiple Standards	9986.62	-9.52698	08/01/03 05:53:15	
3280	328.068	Multiple Standards	1476.84	- .513876	08/01/03 05:53:15	
11908	190.864	Multiple Standards	18521.3	8.55638	08/01/03 05:53:15	
2924	292.402	Multiple Standards	2605.16	- .984608	08/01/03 05:53:15	
2138	213.856	Multiple Standards	3715.97	-22.0249	08/01/03 05:53:15	
13082	308.215	Multiple Standards	43764.1	-1421.94	08/01/03 05:53:15	
3179	317.933	Multiple Standards	33923.4	451.181	08/01/03 05:53:15	
2714	271.441	Multiple Standards	41884.3	34.6737	08/01/03 05:53:15	
2790	279.079	Multiple Standards	52929.5	-7.62003	08/01/03 05:53:15	
2576	257.610	Multiple Standards	517.941	- .046598	08/01/03 05:53:15	
b sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
b sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
e sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
3349	334.941	Multiple Standards	545.203	-38.5847	08/01/03 05:53:15	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	994.5000	ug/L	-1	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2001.000	ug/L	0	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1017.000	ug/L	2	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2009.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	501.0000	ug/L	0	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	486.1000	ug/L	-3	10	
Antimony	500.0000	546.0000	ug/L	9	10	
Arsenic	250.0000	261.0000	ug/L	4	10	
Barium	500.0000	493.0000	ug/L	-1	10	
Beryllium	50.00000	51.20000	ug/L	2	10	
Cadmium	50.00000	49.10000	ug/L	-2	10	
Calcium	1000.000	984.1000	ug/L	-2	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	249.0000	ug/L	0	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	493.6000	ug/L	-1	10	
Lead	250.0000	248.0000	ug/L	-1	10	
Magnesium	1000.000	1012.000	ug/L	1	10	
Manganese	50.00000	49.30000	ug/L	-1	10	
Molybdenum	500.0000	487.0000	ug/L	-3	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	248.0000	ug/L	-1	10	
Silver	50.00000	49.10000	ug/L	-2	10	
Thallium	250.0000	242.0000	ug/L	-3	10	
Titanium	500.0000	508.0000	ug/L	2	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	49.60000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltpe :

standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	144.9000	ug/L	45	50
Antimony	60.00000	80.10000	ug/L	34	50
Arsenic	5.000000	4.100000	ug/L	-18	50
Barium	10.00000	9.950000	ug/L	-1	50
Beryllium	2.000000	1.940000	ug/L	-3	50
Cadmium	5.000000	4.750000	ug/L	-5	50
Chromium	10.00000	9.490000	ug/L	-5	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	9.380000	ug/L	-6	50
Iron	100.0000	103.8000	ug/L	4	50
Lead	3.000000	3.690000	ug/L	23	50
Manganese	10.00000	9.860000	ug/L	-1	50
Molybdenum	20.00000	16.90000	ug/L	-16	50
Nickel	20.00000	20.30000	ug/L	2	50
Selenium	5.000000	3.380000	ug/L	-32	50
Silver	5.000000	4.750000	ug/L	-5	50
Thallium	5.000000	7.200000	ug/L	44	50
Vanadium	10.00000	9.290000	ug/L	-7	50
Zinc	20.00000	21.30000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltpe :

standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	708.8000	ug/L	-5		10	
Antimony		750.0000	801.0000	ug/L	7		10	
Arsenic		375.0000	374.0000	ug/L	0		10	
Barium		750.0000	733.0000	ug/L	-2		10	
Beryllium		75.00000	75.30000	ug/L	0		10	
Cadmium		75.00000	72.60000	ug/L	-3		10	
Calcium		1500.000	1476.000	ug/L	-2		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	368.0000	ug/L	-2		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	728.0000	ug/L	-3		10	
Lead		375.0000	339.0000	ug/L	-10		10	
Magnesium		1500.000	1488.000	ug/L	-1		10	
Manganese		75.00000	73.30000	ug/L	-2		10	
Molybdenum		750.0000	694.0000	ug/L	-7		10	
Nickel		375.0000	373.0000	ug/L	-1		10	
Selenium		375.0000	350.0000	ug/L	-7		10	
Silver		75.00000	72.60000	ug/L	-3		10	
Thallium		375.0000	367.0000	ug/L	-2		10	
Titanium		750.0000	742.0000	ug/L	-1		10	
Vanadium		375.0000	367.0000	ug/L	-2		10	
Zinc		75.00000	73.20000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	477.9000	ug/L	-4	10
Antimony		500.0000	488.0000	ug/L	-2	10
Arsenic		250.0000	263.0000	ug/L	5	10
Barium		500.0000	497.0000	ug/L	-1	10
Beryllium		50.00000	49.90000	ug/L	0	10
Cadmium		50.00000	49.80000	ug/L	0	10
Calcium		1000.000	1018.000	ug/L	2	10
Chromium		100.0000	100.0000	ug/L	0	10
Cobalt		250.0000	250.0000	ug/L	0	10
Copper		100.0000	104.0000	ug/L	4	10
Iron		500.0000	496.1000	ug/L	-1	10
Lead		250.0000	241.0000	ug/L	-4	10
Magnesium		250.0000	241.0000	ug/L	-4	10
Manganese		1000.000	988.9000	ug/L	-1	10
Molybdenum		50.00000	49.70000	ug/L	-1	10
Nickel		500.0000	462.0000	ug/L	-8	10
Selenium		250.0000	254.0000	ug/L	2	10
Silver		250.0000	240.0000	ug/L	-4	10
Thallium		50.00000	50.30000	ug/L	1	10
Titanium		250.0000	244.0000	ug/L	-2	10
Vanadium		500.0000	509.0000	ug/L	2	10
Zinc		250.0000	249.0000	ug/L	0	10
		50.00000	50.00000	ug/L	0	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.5000	ug/L	-2	10	
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1089.000	ug/L	9	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	107.0000	ug/L	7	10	
Iron		500.0000	548.6000	ug/L	10	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1052.000	ug/L	5	10	
Manganese		50.00000	52.20000	ug/L	4	10	
Molybdenum		500.0000	486.0000	ug/L	-3	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.80000	ug/L	4	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	258.0000	ug/L	3	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
egnum : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.2000	ug/L	3	10	
Antimony		750.0000	783.0000	ug/L	4	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.50000	ug/L	-2	10	
Calcium		1500.000	1539.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	752.2000	ug/L	0	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	758.0000	ug/L	1	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079073

Run Name :
Filename : tr212236

Injected : 01-AUG-2003 12:30
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	503.8000	ug/L	1	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	262.0000	ug/L	5	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	52.60000	ug/L	5	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	1054.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	532.3000	ug/L	6	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1068.000	ug/L	7	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	472.0000	ug/L	-6	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	48.90000	ug/L	-2	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.10000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079085

Run Name :
Filename : tr212248

Injected : 01-AUG-2003 13:22
Caltpe :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	739.1000	ug/L	-1	10	
Antimony		750.0000	786.0000	ug/L	5	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	728.0000	ug/L	-3	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	72.50000	ug/L	-3	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	789.0000	ug/L	5	10	
Lead		375.0000	404.0000	ug/L	8	10	
Magnesium		1500.000	1472.000	ug/L	-2	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	772.0000	ug/L	3	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	393.0000	ug/L	5	10	
Silver		75.00000	75.80000	ug/L	1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	73.10000	ug/L	-3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73307079003
Filename: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL		
Antimony	[4.1100]	60.00000	ug/L	<RL		
Arsenic	[0.5980]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.6380]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1590]	10.00000	ug/L	<RL		
Molybdenum	[1.7300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.3900]	5.000000	ug/L	<RL		
Titanium	[0.9030]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079015
Filename: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[10.030]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5330]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4280]	10.00000	ug/L	<RL		
Molybdenum	[3.6500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2100]	5.000000	ug/L	<RL		
Titanium	[0.6130]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.1780]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079027
Filename: tr212190

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1160]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[57.280]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.3300]		10.00000	ug/L	<	RL
Iron	[14.150]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.9880]		500.0000	ug/L	<	RL
Manganese	[0.4800]		10.00000	ug/L	<	RL
Molybdenum	[2.2900]		20.00000	ug/L	<	RL
Nickel	[0.3410]		20.00000	ug/L	<	RL
Selenium	[2.1400]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.5700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4830]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 09:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[2.2190]	100.0000	ug/L	<	RL
Antimony	[2.7100]	60.00000	ug/L	<	RL
Arsenic	[0.8720]	5.000000	ug/L	<	RL
Barium	[0.0330]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.0450]	5.000000	ug/L	<	RL
Calcium	[56.840]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[2.1400]	10.00000	ug/L	<	RL
Iron	[13.060]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[12.470]	500.0000	ug/L	<	RL
Manganese	[0.5800]	10.00000	ug/L	<	RL
Molybdenum	[2.1100]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[3.2500]	5.000000	ug/L	<	RL
Titanium	[1.1900]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.4870]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[11.300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1670]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[63.450]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.1300]		10.00000	ug/L	<	RL
Copper	[2.5800]		10.00000	ug/L	<	RL
Iron	[19.660]		100.0000	ug/L	<	RL
Lead	[0.9820]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.5340]		10.00000	ug/L	<	RL
Molybdenum	[5.7800]		20.00000	ug/L	<	RL
Nickel	[0.7750]		20.00000	ug/L	<	RL
Selenium	[2.8000]		5.000000	ug/L	<	RL
Silver	[0.1070]		5.000000	ug/L	<	RL
Thallium	[1.7600]		5.000000	ug/L	<	RL
Titanium	[2.2400]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.8880]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Sample Number: 73307079062
Filename: tr212225

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2710]	100.0000	ug/L	<RL		
Antimony	[21.700]	60.00000	ug/L	<RL		
Arsenic	[2.6400]	5.000000	ug/L	<RL		
Barium	[0.0450]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0870]	10.00000	ug/L	<RL		
Copper	[2.1700]	10.00000	ug/L	<RL		
Iron	[14.020]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4760]	10.00000	ug/L	<RL		
Molybdenum	[1.4600]	20.00000	ug/L	<RL		
Nickel	[0.5200]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.0320]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2500]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079074
Filename: tr212237

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 12:34

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[21.200]	60.00000	ug/L	<	RL
Arsenic	[0.0640]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.4450]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[4.2090]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[2.6400]	10.00000	ug/L	<	RL
Iron	[30.200]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.3840]	10.00000	ug/L	<	RL
Molybdenum	[3.8400]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[4.0300]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.8500]	5.000000	ug/L	<	RL
Titanium	ND	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079086
Filename: tr212249

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 13:28

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	[5.1740]	100.0000	ug/L	<RL
Antimony	[8.7500]	60.00000	ug/L	<RL
Arsenic	[1.4400]	5.000000	ug/L	<RL
Barium	[0.1250]	10.00000	ug/L	<RL
Beryllium	[0.4670]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[2.1900]	10.00000	ug/L	<RL
Iron	[30.880]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	[0.5560]	10.00000	ug/L	<RL
Molybdenum	[8.8200]	20.00000	ug/L	<RL
Nickel	[0.3250]	20.00000	ug/L	<RL
Selenium	[1.8800]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.1500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	508600.0	ug/L	2			
Antimony	500.0000	557.0000	ug/L	11	20		
Arsenic	500.0000	549.0000	ug/L	10	20		
Barium	500.0000	505.0000	ug/L	1	20		
Beryllium	500.0000	500.0000	ug/L	0	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	453100.0	ug/L	-9			
Chromium	500.0000	482.0000	ug/L	-4	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	187900.0	ug/L	-6			
Lead	1000.000	848.0000	ug/L	-15	20		
Magnesium	500000.0	520300.0	ug/L	4			
Manganese	500.0000	484.0000	ug/L	-3	20		
Molybdenum	500.0000	458.0000	ug/L	-8	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	499.0000	ug/L	0	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	495.0000	ug/L	-1	20		
Titanium	20000.00	2030.000	ug/L	-90			
Vanadium	500.0000	500.0000	ug/L	0	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltype :

standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	541500.0	ug/L	8			
Antimony	500.0000	546.0000	ug/L	9	20		
Arsenic	500.0000	557.0000	ug/L	11	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	526.0000	ug/L	5	20		
Cadmium	1000.000	973.0000	ug/L	-3	20		
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	190300.0	ug/L	-5			
Lead	1000.000	1030.000	ug/L	3	20		
Magnesium	500000.0	545500.0	ug/L	9			
Manganese	500.0000	503.0000	ug/L	1	20		
Molybdenum	500.0000	476.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	516.0000	ug/L	3	20		
Silver	1000.000	894.0000	ug/L	-11	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2110.000	ug/L	-89			
Vanadium	500.0000	508.0000	ug/L	2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73307079072

Run Name :
Filename : tr212235

Injected : 01-AUG-2003 12:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516600.0	ug/L	3		
Antimony	500.0000	525.0000	ug/L	5	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	507.0000	ug/L	1	20	
Beryllium	500.0000	516.0000	ug/L	3	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	474600.0	ug/L	-5		
Chromium	500.0000	492.0000	ug/L	-2	20	
Cobalt	500.0000	492.0000	ug/L	-2	20	
Copper	500.0000	522.0000	ug/L	4	20	
Iron	200000.0	191800.0	ug/L	-4		
Lead	1000.000	1100.000	ug/L	10	20	
Magnesium	500000.0	545300.0	ug/L	9		
Manganese	500.0000	501.0000	ug/L	0	20	
Molybdenum	500.0000	486.0000	ug/L	-3	20	
Nickel	1000.000	1060.000	ug/L	6	20	
Selenium	500.0000	550.0000	ug/L	10	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	509.0000	ug/L	2	20	
Titanium	20000.00	2100.000	ug/L	-90		
Vanadium	500.0000	506.0000	ug/L	1	20	
Zinc	1000.000	1060.000	ug/L	6	20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename Type	Sample Name	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212164 CS		01-AUG-2003 05:59	1.0	1.0		1	
002	tr212165 ICV		01-AUG-2003 06:04	1.0	1.0		2	
003	tr212166 ICB		01-AUG-2003 06:21	1.0	1.0			
004	tr212167 CRI		01-AUG-2003 06:25	1.0	1.0		3	
005	tr212168 ICSAB		01-AUG-2003 06:32	1.0	1.0		4	4:MG=520300
006	tr212169 BLANK	QC220939	83342 Soil	01-AUG-2003 06:43	1.0			
007	tr212170 BS	QC220940	83342 Soil	01-AUG-2003 06:47	1.0			
008	tr212171 BSD	QC220941	83342 Soil	01-AUG-2003 06:51	1.0			
009	tr212172 MSS	166599-013	83342 Soil	01-AUG-2003 06:56	1.0			
010	tr212173 MSS	166599-013	83342 Soil	01-AUG-2003 07:01	1.0			1:FE=196400
011	tr212174 SER	QC220944	83342 Soil	01-AUG-2003 07:06	5.0			1:FE=195700
012	tr212175 SER	QC220944	83342 Soil	01-AUG-2003 07:10	5.0			
013	tr212176 MSS	166599-013	83342 Soil	01-AUG-2003 07:14	5.0			
014	tr212177 CCV	03w1150	83342 Soil	01-AUG-2003 07:19	1.0		5	
015	tr212178 CCB		01-AUG-2003 07:28	1.0	1.0			
016	tr212179 SER	QC220944	83342 Soil	01-AUG-2003 07:32	25.0			
017	tr212180 MS	QC220942	83342 Soil	01-AUG-2003 07:36	1.0			2:FE=209400
018	tr212181 MSD	QC220943	83342 Soil	01-AUG-2003 07:40	1.0			2:FE=231300
019	tr212182 PDS	QC220945	83342 Soil	01-AUG-2003 07:44	1.0		6 7	2:FE=207000
020	tr212183 SAMPLE	166599-024	83342 Soil	01-AUG-2003 07:49	1.0			1:FE=137400
021	tr212184 SAMPLE	166599-025	83342 Soil	01-AUG-2003 07:53	1.0			2:FE=188900
022	tr212185 SAMPLE	166599-026	83342 Soil	01-AUG-2003 07:57	1.0			2:FE=172400
023	tr212186 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:01	1.0			2:FE=167200
024	tr212187 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:05	1.0			1:FE=139000
025	tr212188 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:09	1.0			2:FE=166000
026	tr212189 CCV		01-AUG-2003 08:26	1.0	1.0		8	
027	tr212190 CCB		01-AUG-2003 08:39	1.0	1.0			
028	tr212191 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:43	10.0			
029	tr212192 SAMPLE	166599-025	83342 Soil	01-AUG-2003 08:47	10.0			
030	tr212193 SAMPLE	166599-026	83342 Soil	01-AUG-2003 08:51	10.0			
031	tr212194 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:55	10.0			
032	tr212195 SAMPLE	166643-001	83342 Miscel	01-AUG-2003 09:00	1.0			
					46.72897			

Stds used: 1-03WS1109 2-03WS1149 3-03WS0897 4-03WS1089 5-03WS1150 6-03SS75 7-03SS74 8-03WS1151

Analyst: Mei Wu Date: 8/1/07

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003	09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003	09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003	09:12	1.0	48.30918					3:FE=262700
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003	09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003	09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003	09:33	1.0	1.0				5	
039	tr212202	CCB				01-AUG-2003	09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003	09:49	1.0	50.0					
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003	09:53	1.0	45.04505					2:FE=250500
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003	09:57	1.0	49.50495					3:FE=234100
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003	10:01	1.0	43.29004					2:FE=283000
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003	10:05	1.0	46.08295					2:FE=243700
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003	10:09	1.0	46.29630					2:FE=248000
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003	10:13	1.0	47.84689					4:FE=439200
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003	10:17	1.0	40.0					4:CA=430200
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003	10:20	1.0	49.26108					2:FE=409400
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003	10:25	20.0	1.0			1		
050	tr212213	CCV				01-AUG-2003	10:35	1.0	1.0				5	
051	tr212214	CCB				01-AUG-2003	10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003	10:43	50.0	1.0					
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003	10:46	100.0	1.0			1		
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003	10:50	1.0	1.0			1		
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003	10:54	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003	10:57	1.0	1.0					
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003	11:00	1.0	1.0			1		
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003	11:04	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003	11:07	1.0	1.0					
060	tr212223	ICSAB				01-AUG-2003	11:18	1.0	1.0				4	4:MG=545500
061	tr212224	CCV				01-AUG-2003	11:27	1.0	1.0				8	
062	tr212225	CCB				01-AUG-2003	11:39	1.0	1.0					
063	tr212226	BLANK	QC220926	83340	Water	01-AUG-2003	11:44	1.0	1.0			1		
064	tr212227	BS	QC220927	83340	Water	01-AUG-2003	11:50	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Mei Wu Date: 8/1/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212228 BSD	QC220928	83340	Water	01-AUG-2003	11:53	1.0						
066	tr212229 SAMPLE	166649-001	83340	Water	01-AUG-2003	11:57	1.0						
067	tr212230 SAMPLE	166649-010	83340	Water	01-AUG-2003	12:00	1.0		1				
068	tr212231 SAMPLE	166649-010	83340	Water	01-AUG-2003	12:05	1.0						
069	tr212232 BLANK	QC220909	83337	Soil	01-AUG-2003	12:09	1.0		1				
070	tr212233 BS	QC220910	83337	Soil	01-AUG-2003	12:16	1.0						
071	tr212234 BSD	QC220911	83337	Soil	01-AUG-2003	12:19	1.0						
072	tr212235 ICSAB				01-AUG-2003	12:23	1.0				4		4:MG=545300
073	tr212236 CCV				01-AUG-2003	12:30	1.0				5		
074	tr212237 CCB				01-AUG-2003	12:34	1.0						
075	tr212238 BS	QC220725	83290	Water	01-AUG-2003	12:38	1.0						
076	tr212239 BSD	QC220726	83290	Water	01-AUG-2003	12:43	1.0						
077	tr212240 MSS	166599-007	83337	Soil	01-AUG-2003	12:47	1.0		4				3:FE=367700
078	tr212241 MSS	166599-007	83337	Soil	01-AUG-2003	12:51	1.0		3				3:FE=362800
079	tr212242 MSS	166599-007	83337	Soil	01-AUG-2003	12:54	10.0		1				
080	tr212243 SER	QC220914	83337	Soil	01-AUG-2003	12:59	5.0		1				
081	tr212244 SER	QC220914	83337	Soil	01-AUG-2003	13:02	5.0		1				
082	tr212245 SER	QC220914	83337	Soil	01-AUG-2003	13:06	50.0						
083	tr212246 MS	QC220912	83337	Soil	01-AUG-2003	13:10	1.0		1				4:FE=412200
084	tr212247 MSD	QC220913	83337	Soil	01-AUG-2003	13:14	1.0		1				4:FE=417600
085	tr212248 CCV				01-AUG-2003	13:22	1.0				8		
086	tr212249 CCB				01-AUG-2003	13:28	1.0						
087	tr212250 SAMPLE	166566-004	83337	Soil	01-AUG-2003	13:34	1.0		3				3:FE=274500
088	tr212251 SAMPLE	166566-005	83337	Soil	01-AUG-2003	13:38	1.0		4				2:FE=245100
089	tr212252 SAMPLE	166568-001	83337	Soil	01-AUG-2003	13:41	1.0						1:CA=205000
090	tr212253 SAMPLE	166599-028	83337	Soil	01-AUG-2003	13:45	1.0						1:FE=151900
091	tr212254 SAMPLE	166599-029	83337	Soil	01-AUG-2003	13:48	1.0						1:FE=120100
092	tr212255 SAMPLE	166599-030	83337	Soil	01-AUG-2003	13:52	1.0						2:FE=190900

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Mei Wu Date: 8/16

REPORTING SUMMARY FOR 166561 METALS Water

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166561-023	MET07	07/31/03 19:31	1.0				+					+	+									+
166561-023	MET07	08/01/03 10:57	1.0		+																	
166561-028	MET07	07/31/03 19:36	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166561-028	MET07	08/01/03 11:00	1.0		+								+							+		
QC220724	MET07	07/31/03 17:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220725	MET07	07/31/03 17:17	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220725	MET07	08/01/03 12:38	1.0		+																	
QC220726	MET07	07/31/03 17:21	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220726	MET07	08/01/03 12:43	1.0		+																	
QC220727	MET07	07/31/03 17:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220728	MET07	07/31/03 17:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220729	MET07	07/31/03 17:29	5.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC220729	MET07	08/01/03 10:43	50.0																			
QC220729	MET07	08/01/03 10:46	100.0												+							
QC220938	MET07	07/31/03 18:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary

31-JUL-2003 18:42

Batch Number : 83290
 Date Extracted : 30-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166552-001		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-002		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-003		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-004		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-005		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-006		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-007		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-008		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166552-009		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166554-001		Tetra Tech EMI	Water	50	ml	50	1	1					T26/ICP	
166554-002		Tetra Tech EMI	Water	50	ml	50	1	1					T26/ICP	
166560-022		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	MISS
166561-023		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166561-028		Treadwell & Rollo	Water	50	ml	50	1	1					TAL/ICP	
166599-014		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166604-001		LA Chemical	Water	50	ml	50	1	1					ZN	
QC220724	BLANK		Water	50	ml	50	1	1					ICAP	
QC220725	BS		Water	50	ml	50	1	1					ICAP	
QC220726	BSD		Water	50	ml	50	1	1					ICAP	
QC220727	MS	of 166554-002	Water	50	ml	50	1	1					ICAP	
QC220728	MSD	of 166554-002	Water	50	ml	50	1	1					ICAP	
QC220729	SER	of 166554-002	Water	50	ml	50	1	1					ICAP	
QC220938	PDS	of 166554-002	Water	50	ml	50	1	1					ICAP	

Prep Chemist:

MW for PV

Reviewed By:

MW

Date:

7/31/03

Relinquished By:

MW

Received By:

MW

Date:

7/31/03

07/30/03		Batch# 83290		ICAP/M 3010	
SAMPLE ID		INIT VOL (ML)	Final Vol	FILTERED YES/NO	COMMENTS
D	1166552-001	50.0	50.0	NO	SPICES
↓	002				♥ 03SS177 (0.5 mL)
↓	003				♥ 03SS178 ↓
A	004				
↓	005				Reagents
↓	006				HNO3 OT BAKER# 405050
D	007				1:1 HCL OT BAKER# 412028/072303
↓	008				
A	009				
G	1166554-001				
↓	002 (HSS)				
A	1166560-002				
↓	1166561-003				
↓	1166561-028				
↓	1166599-014				
↓	1166604-001				
↓	MS-220724				
↓	BS 220725				
↓	BS 220726				
↓	MS-6554-002				
↓	MS-6554-002				

Continued on Page

Read and Understood By

Patricia Vengara

Signed

07/30/03

Date

104

mm

Signed

7/31/03

Date

Method Detection Limit Study for EPA 6010B / Dec. 7
Curtis & Tompkins Laboratories

Rev 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L u

Method Detection Limit Study for EPA 6010B / 200.7 *✓ 6/25/03*
 Curtis & Tompkins Laboratories

Instrument: MET07
 Matrix : Water
 Partition : All

Study # : 17730
 Study Date: 20-JUN-2003
 Effective : 25-JUN-2003

Batchnum : 82300
 Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

✓ 125/103

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.00000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

07

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB07[1]	Batch#:	83188
Lab ID:	166561-014	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,100	4.5	1.000
Antimony	ND	2.7	1.000
Arsenic	1.8	0.22	1.000
Barium	30	0.45	1.000
Beryllium	ND	0.090	1.000
Cadmium	0.85	0.22	1.000
Chromium	27	0.45	1.000
Cobalt	4.7	0.90	1.000
Copper	6.7	0.45	1.000
Iron	7,800	45	10.00
Lead	5.1	0.13	1.000
Magnesium	1,800	22	1.000
Manganese	180	0.45	1.000
Nickel	21	0.90	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	19	0.45	1.000
Zinc	24	0.90	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP072503A	Batch#:	83188
Lab ID:	166561-029	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	4,200	4.4	1.000
Antimony	ND	2.7	1.000
Arsenic	2.1	0.22	1.000
Barium	26	0.44	1.000
Beryllium	ND	0.089	1.000
Cadmium	1.0	0.22	1.000
Chromium	36	0.44	1.000
Cobalt	4.1	0.89	1.000
Copper	7.8	0.44	1.000
Iron	9,400	44	10.00
Lead	53	0.13	1.000
Magnesium	1,700	22	1.000
Manganese	120	0.44	1.000
Nickel	21	0.89	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	26	0.44	1.000
Zinc	38	0.89	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB25 [1]	Batch#:	83188
Lab ID:	166561-030	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 6%

Analyte	Result	RL	Diln Fac
Aluminum	4,200	5.2	1.000
Antimony	ND	3.1	1.000
Arsenic	2.4	0.26	1.000
Barium	25	0.52	1.000
Beryllium	ND	0.10	1.000
Cadmium	1.0	0.26	1.000
Chromium	36	0.52	1.000
Cobalt	4.2	1.0	1.000
Copper	9.8	0.52	1.000
Iron	9,300	52	10.00
Lead	50	0.15	1.000
Magnesium	1,700	26	1.000
Manganese	120	0.52	1.000
Nickel	21	1.0	1.000
Selenium	ND	0.26	1.000
Silver	ND	0.26	1.000
Thallium	ND	0.26	1.000
Vanadium	26	0.52	1.000
Zinc	40	1.0	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB22[0.3]	Batch#:	83188
Lab ID:	166561-042	Sampled:	07/25/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/29/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	5,200	47	10.00
Antimony	ND	2.8	1.000
Arsenic	2.3	0.24	1.000
Barium	28	0.47	1.000
Beryllium	ND	0.094	1.000
Cadmium	1.0	0.24	1.000
Chromium	38	0.47	1.000
Cobalt	4.7	0.94	1.000
Copper	3.9	0.47	1.000
Iron	9,100	47	10.00
Lead	5.4	0.14	1.000
Magnesium	1,800	24	1.000
Manganese	140	0.47	1.000
Nickel	25	0.94	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	24	0.47	1.000
Zinc	22	0.94	1.000

Barium

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB13[0.3]	SAMPLE	166561-001	12	0.42	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB13[1]	SAMPLE	166561-002	14	0.46	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB14[0.3]	SAMPLE	166561-003	23	0.38	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB14[1]	SAMPLE	166561-004	8.3	0.59	dry	18%	83259	07/24/03	07/29/03	07/30/03
LCBSB16[0.3]	SAMPLE	166561-005	16	0.47	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB16[1]	SAMPLE	166561-006	15	0.43	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB15[1]	SAMPLE	166561-007	16	0.49	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403C	SAMPLE	166561-008	14	0.51	dry	12%	83259	07/24/03	07/29/03	07/30/03
LCBSB15[2]	SAMPLE	166561-009	23	0.54	dry	13%	83259	07/24/03	07/29/03	07/30/03
LCBSB10[0.5]	SAMPLE	166561-010	16	0.46	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB10[1.5]	SAMPLE	166561-011	32	0.51	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB08[0.3]	SAMPLE	166561-012	18	0.44	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB08[1]	SAMPLE	166561-013	13	0.49	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB07[2]	SAMPLE	166561-015	28	0.43	dry	4%	83259	07/24/03	07/29/03	07/30/03
LCBSB11[0.3]	SAMPLE	166561-016	15	0.49	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB11[1]	SAMPLE	166561-017	18	0.49	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB05[0.3]	SAMPLE	166561-018	44	0.49	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB05[1]	SAMPLE	166561-019	26	0.52	dry	5%	83259	07/24/03	07/29/03	07/30/03
LCBSB02[1]	SAMPLE	166561-020	20	0.51	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB02[2.5]	SAMPLE	166561-021	20	0.49	dry	2%	83259	07/24/03	07/29/03	07/30/03
DUP072403D	SAMPLE	166561-022	23	0.45	dry	5%	83296	07/24/03	07/30/03	07/31/03
LCBSB03[1]	SAMPLE	166561-024	68	0.45	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB03[2.5]	SAMPLE	166561-025	38	0.46	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06[1]	SAMPLE	166561-026	31	0.49	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06[2]	SAMPLE	166561-027	30	0.46	dry	4%	83296	07/24/03	07/30/03	07/31/03
CHPSB25[2]	SAMPLE	166561-031	33	0.50	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB25[3]	SAMPLE	166561-032	30	0.50	dry	7%	83296	07/25/03	07/30/03	07/31/03
CHPSB26[1]	SAMPLE	166561-033	37	0.53	dry	6%	83296	07/25/03	07/30/03	07/31/03

ND= Not Detected
RL= Reporting Limit
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39.0



Curtis & Tompkins, Ltd.

Barium				
Lab #:	166561	Location:		
Client:	Treadwell & Rollo	Prep:	EPA 3050	Presidio Firing Ranges
Project#:	2893.07	Analysis:	EPA 6010B	
Analyte:	Barium	Diln Fac:	1.000	
Matrix:	Soil	Received:	07/25/03	
Units:	mg/Kg			

Field ID	Type	Lab ID	Result	RL	Units	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB26 [3]	SAMPLE	166561-034	82	0.47	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [0.3]	SAMPLE	166561-036	44	0.41	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [1]	SAMPLE	166561-037	41	0.45	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [2.5]	SAMPLE	166561-038	29	0.58	dry	19%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [0.3]	SAMPLE	166561-039	71	0.48	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [1]	SAMPLE	166561-040	34	0.47	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [2.5]	SAMPLE	166561-041	37	0.52	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [1]	SAMPLE	166561-043	57	0.57	dry	13%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [2.5]	SAMPLE	166561-044	85	0.56	dry	12%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [0.3]	SAMPLE	166561-045	35	0.47	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [1]	SAMPLE	166561-046	58	0.53	dry	9%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [2.5]	SAMPLE	166561-047	42	0.42	dry	12%	83296	07/25/03	07/30/03	07/31/03
	BLANK	QC220336	ND	0.50	as received		83188		07/26/03	07/28/03
	BLANK	QC220617	ND	0.50	as received		83259		07/29/03	07/30/03
	BLANK	QC220746	ND	0.50	as received		83296		07/30/03	07/31/03

ND= Not Detected
 RL= Reporting Limit
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Copper

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB13 [0.3]	SAMPLE	166561-001	2.6	0.42	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB13 [1]	SAMPLE	166561-002	3.5	0.46	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [0.3]	SAMPLE	166561-003	4.9	0.38	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [1]	SAMPLE	166561-004	2.4	0.59	dry	18%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [0.3]	SAMPLE	166561-005	3.0	0.47	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [1]	SAMPLE	166561-006	3.3	0.43	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [1]	SAMPLE	166561-007	3.3	0.49	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403C	SAMPLE	166561-008	3.3	0.51	dry	12%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [2]	SAMPLE	166561-009	5.6	0.54	dry	13%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [0.5]	SAMPLE	166561-010	3.7	0.46	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [1.5]	SAMPLE	166561-011	8.2	0.51	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [0.3]	SAMPLE	166561-012	4.7	0.44	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [1]	SAMPLE	166561-013	3.8	0.49	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB07 [2]	SAMPLE	166561-015	6.8	0.43	dry	4%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [0.3]	SAMPLE	166561-016	3.2	0.49	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [1]	SAMPLE	166561-017	4.9	0.49	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [0.3]	SAMPLE	166561-018	11	0.49	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [1]	SAMPLE	166561-019	4.9	0.52	dry	5%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [1]	SAMPLE	166561-020	3.6	0.51	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [2.5]	SAMPLE	166561-021	5.3	0.49	dry	2%	83259	07/24/03	07/29/03	07/30/03
DUP072403D	SAMPLE	166561-022	4.7	0.45	dry	5%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [1]	SAMPLE	166561-024	6.2	0.45	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [2.5]	SAMPLE	166561-025	8.9	0.46	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [1]	SAMPLE	166561-026	6.2	0.49	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [2]	SAMPLE	166561-027	5.6	0.46	dry	4%	83296	07/24/03	07/30/03	07/31/03
CHPSB25 [2]	SAMPLE	166561-031	5.2	0.50	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB25 [3]	SAMPLE	166561-032	3.5	0.50	dry	7%	83296	07/25/03	07/30/03	07/31/03
CHPSB26 [1]	SAMPLE	166561-033	5.3	0.53	dry	6%	83296	07/25/03	07/30/03	07/31/03

ND= Not Detected

RL= Reporting Limit

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42.0



Curtis & Tompkins, Ltd.

Copper

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basic	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB26 [3]	SAMPLE	166561-034	6.8	0.47	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [0.3]	SAMPLE	166561-036	140	0.41	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [1]	SAMPLE	166561-037	6.0	0.45	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [2.5]	SAMPLE	166561-038	3.9	0.58	dry	19%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [0.3]	SAMPLE	166561-039	22	0.48	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [1]	SAMPLE	166561-040	5.3	0.47	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [2.5]	SAMPLE	166561-041	5.5	0.52	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [1]	SAMPLE	166561-043	6.2	0.57	dry	13%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [2.5]	SAMPLE	166561-044	16	0.56	dry	12%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [0.3]	SAMPLE	166561-045	4.4	0.47	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [1]	SAMPLE	166561-046	5.7	0.53	dry	9%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [2.5]	SAMPLE	166561-047	4.4	0.42	dry	12%	83296	07/25/03	07/30/03	07/31/03
	BLANK	QC220336	ND	0.50	as received		83188		07/26/03	07/28/03
	BLANK	QC220617	ND	0.50	as received		83259		07/29/03	07/30/03
	BLANK	QC220746	ND	0.50	as received		83296		07/30/03	07/31/03

Lead

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB13 [0.3]	SAMPLE	166561-001	0.74	0.13	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB13 [1]	SAMPLE	166561-002	4.0	0.14	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [0.3]	SAMPLE	166561-003	5.4	0.12	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [1]	SAMPLE	166561-004	3.7	0.18	dry	18%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [0.3]	SAMPLE	166561-005	3.8	0.14	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [1]	SAMPLE	166561-006	3.8	0.13	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [1]	SAMPLE	166561-007	4.1	0.15	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403C	SAMPLE	166561-008	1.9	0.15	dry	12%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [2]	SAMPLE	166561-009	5.7	0.16	dry	13%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [0.5]	SAMPLE	166561-010	3.4	0.14	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [1.5]	SAMPLE	166561-011	6.7	0.15	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [0.3]	SAMPLE	166561-012	22	0.13	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [1]	SAMPLE	166561-013	2.0	0.15	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB07 [2]	SAMPLE	166561-015	3.8	0.13	dry	4%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [0.3]	SAMPLE	166561-016	3.7	0.15	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [1]	SAMPLE	166561-017	1.8	0.15	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [0.3]	SAMPLE	166561-018	13	0.15	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [1]	SAMPLE	166561-019	8.5	0.15	dry	5%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [1]	SAMPLE	166561-020	3.2	0.15	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [2.5]	SAMPLE	166561-021	2.2	0.15	dry	2%	83259	07/24/03	07/29/03	07/30/03
DUP072403D	SAMPLE	166561-022	2.5	0.14	dry	5%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [1]	SAMPLE	166561-024	4.3	0.14	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [2.5]	SAMPLE	166561-025	2.1	0.14	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [1]	SAMPLE	166561-026	1.5	0.15	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [2]	SAMPLE	166561-027	4.9	0.14	dry	4%	83296	07/24/03	07/30/03	07/31/03
CHPSB25 [2]	SAMPLE	166561-031	11	0.15	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB25 [3]	SAMPLE	166561-032	3.4	0.15	dry	7%	83296	07/25/03	07/30/03	07/31/03
CHPSB26 [1]	SAMPLE	166561-033	16	0.16	dry	6%	83296	07/25/03	07/30/03	07/31/03

ND= Not Detected
 RL= Reporting Limit
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45.0



Curtis & Tompkins, Ltd.

Lead			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB26 [3]	SAMPLE	166561-034	5.1	0.14	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [0.3]	SAMPLE	166561-036	29	0.12	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [1]	SAMPLE	166561-037	15	0.13	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [2.5]	SAMPLE	166561-038	0.97	0.17	dry	19%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [0.3]	SAMPLE	166561-039	25	0.14	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [1]	SAMPLE	166561-040	29	0.14	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [2.5]	SAMPLE	166561-041	24	0.16	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [1]	SAMPLE	166561-043	0.61	0.17	dry	13%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [2.5]	SAMPLE	166561-044	ND	0.17	dry	12%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [0.3]	SAMPLE	166561-045	2.0	0.14	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [1]	SAMPLE	166561-046	0.76	0.16	dry	9%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [2.5]	SAMPLE	166561-047	0.34	0.13	dry	12%	83296	07/25/03	07/30/03	07/31/03
	BLANK	QC220336	ND	0.15	as received		83188			
	BLANK	QC220617	ND	0.15	as received		83259			
	BLANK	QC220746	ND	0.15	as received		83296			



Antimony

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB13 [0.3]	SAMPLE	166561-001	ND	2.5	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB13 [1]	SAMPLE	166561-002	ND	2.7	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [0.3]	SAMPLE	166561-003	ND	2.3	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [1]	SAMPLE	166561-004	ND	3.6	dry	18%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [0.3]	SAMPLE	166561-005	ND	2.8	dry	1%	83259	07/24/03	07/29/03	07/31/03
LCBSB16 [1]	SAMPLE	166561-006	ND	2.6	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [1]	SAMPLE	166561-007	ND	2.9	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403C	SAMPLE	166561-008	ND	3.1	dry	12%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [2]	SAMPLE	166561-009	ND	3.2	dry	13%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [0.5]	SAMPLE	166561-010	ND	2.8	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [1.5]	SAMPLE	166561-011	ND	3.0	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [0.3]	SAMPLE	166561-012	ND	2.7	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [1]	SAMPLE	166561-013	ND	2.9	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB07 [2]	SAMPLE	166561-015	ND	2.6	dry	4%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [0.3]	SAMPLE	166561-016	ND	2.9	dry	1%	83259	07/24/03	07/29/03	07/31/03
LCBSB11 [1]	SAMPLE	166561-017	ND	2.9	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [0.3]	SAMPLE	166561-018	ND	2.9	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [1]	SAMPLE	166561-019	ND	3.1	dry	5%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [2.5]	SAMPLE	166561-020	ND	3.0	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403D	SAMPLE	166561-021	ND	2.9	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB03 [1]	SAMPLE	166561-022	ND	2.7	dry	5%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [2.5]	SAMPLE	166561-024	ND	2.7	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [1]	SAMPLE	166561-025	ND	2.8	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [2]	SAMPLE	166561-026	ND	2.9	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB25 [2]	SAMPLE	166561-027	ND	2.8	dry	4%	83296	07/24/03	07/30/03	07/31/03
CHPSB25 [3]	SAMPLE	166561-031	ND	3.0	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB26 [1]	SAMPLE	166561-032	ND	3.0	dry	7%	83296	07/25/03	07/30/03	07/31/03
CHPSB26 [1]	SAMPLE	166561-033	ND	3.2	dry	6%	83296	07/25/03	07/30/03	07/31/03

ND= Not Detected
RL= Reporting Limit
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48.0



Curtis & Tompkins, Ltd.

Antimony

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basic	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB26[3]	SAMPLE	166561-034	ND	2.8	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB24[0.3]	SAMPLE	166561-036	ND	2.4	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB24[1]	SAMPLE	166561-037	ND	2.7	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB24[2.5]	SAMPLE	166561-038	ND	3.5	dry	19%	83296	07/25/03	07/30/03	07/31/03
CHPSB23[0.3]	SAMPLE	166561-039	ND	2.9	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB23[1]	SAMPLE	166561-040	ND	2.8	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB23[2.5]	SAMPLE	166561-041	ND	3.1	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB21[1]	SAMPLE	166561-043	ND	3.4	dry	13%	83296	07/25/03	07/30/03	07/31/03
CHPSB21[2.5]	SAMPLE	166561-044	ND	3.4	dry	12%	83296	07/25/03	07/30/03	07/31/03
CHPSB21[0.3]	SAMPLE	166561-045	ND	2.8	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB22[1]	SAMPLE	166561-046	ND	3.2	dry	9%	83296	07/25/03	07/30/03	07/31/03
CHPSB22[2.5]	SAMPLE	166561-047	ND	2.5	dry	12%	83296	07/25/03	07/30/03	07/31/03
	BLANK	QC220336	ND	3.0	as received		83188		07/26/03	07/28/03
	BLANK	QC220617	ND	3.0	as received		83259		07/29/03	07/30/03
	BLANK	QC220746	ND	3.0	as received		83296		07/30/03	07/31/03

ND= Not Detected
RL= Reporting Limit
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Zinc

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Hatch#	Sampled	Prepared	Analyzed
LCBSB13 [0.3]	SAMPLE	166561-001	15	0.84	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB13 [1]	SAMPLE	166561-002	19	0.91	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [0.3]	SAMPLE	166561-003	19	0.77	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB14 [1]	SAMPLE	166561-004	14	1.2	dry	18%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [0.3]	SAMPLE	166561-005	23	0.93	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB16 [1]	SAMPLE	166561-006	18	0.86	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [1]	SAMPLE	166561-007	19	0.98	dry	3%	83259	07/24/03	07/29/03	07/30/03
DUP072403C	SAMPLE	166561-008	17	1.0	dry	12%	83259	07/24/03	07/29/03	07/30/03
LCBSB15 [2]	SAMPLE	166561-009	22	1.1	dry	13%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [0.5]	SAMPLE	166561-010	23	0.93	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB10 [1.5]	SAMPLE	166561-011	24	1.0	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [0.3]	SAMPLE	166561-012	27	0.89	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB08 [1]	SAMPLE	166561-013	17	0.98	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB07 [2]	SAMPLE	166561-015	25	0.85	dry	4%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [0.3]	SAMPLE	166561-016	19	0.97	dry	1%	83259	07/24/03	07/29/03	07/30/03
LCBSB11 [1]	SAMPLE	166561-017	33	0.98	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [0.3]	SAMPLE	166561-018	35	0.98	dry	2%	83259	07/24/03	07/29/03	07/30/03
LCBSB05 [1]	SAMPLE	166561-019	23	1.0	dry	5%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [1]	SAMPLE	166561-020	19	1.0	dry	3%	83259	07/24/03	07/29/03	07/30/03
LCBSB02 [2.5]	SAMPLE	166561-021	22	0.98	dry	2%	83259	07/24/03	07/29/03	07/30/03
DUP072403D	SAMPLE	166561-022	20	0.90	dry	5%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [1]	SAMPLE	166561-024	21	0.90	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB03 [2.5]	SAMPLE	166561-025	23	0.92	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [1]	SAMPLE	166561-026	21	0.98	dry	4%	83296	07/24/03	07/30/03	07/31/03
LCBSB06 [2]	SAMPLE	166561-027	21	0.93	dry	4%	83296	07/24/03	07/30/03	07/31/03
CHPSB25 [2]	SAMPLE	166561-031	32	0.99	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB25 [3]	SAMPLE	166561-032	29	1.0	dry	7%	83296	07/25/03	07/30/03	07/31/03
CHPSB26 [1]	SAMPLE	166561-033	35	1.1	dry	6%	83296	07/25/03	07/30/03	07/31/03

ND= Not Detected
RL= Reporting Limit
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52.0



Curtis & Tompkins, Ltd.

Zinc

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB26 [3]	SAMPLE	166561-034	27	0.93	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [0.3]	SAMPLE	166561-036	120	0.81	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [1]	SAMPLE	166561-037	70	0.89	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB24 [2.5]	SAMPLE	166561-038	17	1.2	dry	19%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [0.3]	SAMPLE	166561-039	37	0.95	dry	3%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [1]	SAMPLE	166561-040	55	0.95	dry	6%	83296	07/25/03	07/30/03	07/31/03
CHPSB23 [2.5]	SAMPLE	166561-041	77	1.0	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [1]	SAMPLE	166561-043	20	1.1	dry	13%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [2.5]	SAMPLE	166561-044	31	1.1	dry	12%	83296	07/25/03	07/30/03	07/31/03
CHPSB21 [0.3]	SAMPLE	166561-045	16	0.95	dry	4%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [1]	SAMPLE	166561-046	18	1.1	dry	9%	83296	07/25/03	07/30/03	07/31/03
CHPSB22 [2.5]	SAMPLE	166561-047	17	0.84	dry	12%	83296	07/25/03	07/30/03	07/31/03
	BLANK	QC220336	ND	1.0	as received		83188		07/26/03	07/28/03
	BLANK	QC220617	ND	1.0	as received		83259		07/29/03	07/30/03
	BLANK	QC220746	ND	1.0	as received		83296		07/30/03	07/31/03



Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220336	Batch#:	83188
Matrix:	Soil	Prepared:	07/26/03
Units:	mg/Kg	Analyzed:	07/28/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

**Target Analyte List Metals**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220617	Batch#:	83259
Matrix:	Soil	Prepared:	07/29/03
Units:	mg/Kg	Analyzed:	07/30/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220746	Batch#:	83296
Matrix:	Soil	Prepared:	07/30/03
Units:	mg/Kg	Analyzed:	07/31/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC220337

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	942.5	94	75-125
Antimony	100.0	112.0	112	75-125
Arsenic	50.00	50.50	101	75-125
Barium	100.0	97.50	98	75-125
Beryllium	2.500	2.600	104	75-125
Cadmium	10.00	9.650	97	75-125
Chromium	100.0	96.00	96	75-125
Cobalt	25.00	23.80	95	75-125
Copper	12.50	12.15	97	75-125
Iron	1,000	938.0	94	75-125
Lead	100.0	104.5	105	75-125
Magnesium	1,000	983.5	98	75-125
Manganese	25.00	23.15	93	75-125
Nickel	25.00	25.05	100	75-125
Selenium	50.00	52.50	105	75-125
Silver	10.00	9.600	96	75-125
Thallium	50.00	47.65	95	75-125
Vanadium	25.00	24.30	97	75-125
Zinc	25.00	23.95	96	75-125

Type: BSD

Lab ID: QC220338

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	934.0	93	75-125	1	30
Antimony	100.0	111.0	111	75-125	1	30
Arsenic	50.00	49.90	100	75-125	1	30
Barium	100.0	96.50	97	75-125	1	30
Beryllium	2.500	2.590	104	75-125	0	30
Cadmium	10.00	9.600	96	75-125	1	30
Chromium	100.0	95.50	96	75-125	1	30
Cobalt	25.00	23.70	95	75-125	0	30
Copper	12.50	12.00	96	75-125	1	30
Iron	1,000	932.0	93	75-125	1	30
Lead	100.0	104.5	105	75-125	0	30
Magnesium	1,000	978.0	98	75-125	1	30
Manganese	25.00	23.00	92	75-125	1	30
Nickel	25.00	24.70	99	75-125	1	30
Selenium	50.00	52.00	104	75-125	1	30
Silver	10.00	9.550	96	75-125	1	30
Thallium	50.00	48.05	96	75-125	1	30
Vanadium	25.00	24.10	96	75-125	1	30
Zinc	25.00	23.70	95	75-125	1	30

RPD= Relative Percent Difference
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7.0

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220618

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	107.0	107	75-125
Barium	100.0	98.50	99	75-125
Copper	12.50	11.85	95	75-125
Lead	100.0	95.00	95	75-125
Zinc	25.00	23.70	95	75-125

Type: BSD Lab ID: QC220619

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	97.00	97	75-125	10	30
Barium	100.0	88.50	89	75-125	11	30
Copper	12.50	10.70	86	75-125	10	30
Lead	100.0	85.50	86	75-125	11	30
Zinc	25.00	21.40	86	75-125	10	30

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220747

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	113.5	114	75-125
Barium	100.0	100.0	100	75-125
Copper	12.50	12.35	99	75-125
Lead	100.0	96.00	96	75-125
Zinc	25.00	23.60	94	75-125

Type: BSD Lab ID: QC220748

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	107.0	107	75-125	6	30
Barium	100.0	99.00	99	75-125	1	30
Copper	12.50	12.10	97	75-125	2	30
Lead	100.0	92.50	93	75-125	4	30
Zinc	25.00	23.35	93	75-125	1	30

**Barium**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220337	100.0	97.50	98	75-125		
BSD	QC220338	100.0	96.50	97	75-125	1	30

Barium			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220618	100.0	98.50	99	75-125		
BSD	QC220619	100.0	88.50	89	75-125	11	30

Barium

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220747	100.0	100.0	100	75-125		
BSD	QC220748	100.0	99.00	99	75-125	1	30

**Copper**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220337	12.50	12.15	97	75-125		
BSD	QC220338	12.50	12.00	96	75-125	1	30

Copper			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220618	12.50	11.85	95	75-125		
BSD	QC220619	12.50	10.70	86	75-125	10	30

Copper

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220747	12.50	12.35	99	75-125		
BSD	QC220748	12.50	12.10	97	75-125	2	30

Lead			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220337	100.0	104.5	105	75-125		
BSD	QC220338	100.0	104.5	105	75-125	0	30

**Lead**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220618	100.0	95.00	95	75-125		
BSD	QC220619	100.0	85.50	86	75-125	11	30

Lead			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220747	100.0	96.00	96	75-125		
BSD	QC220748	100.0	92.50	93	75-125	4	30

Antimony			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220337	100.0	112.0	112	75-125		
BSD	QC220338	100.0	111.0	111	75-125	1	30

Antimony			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220618	100.0	107.0	107	75-125		
BSD	QC220619	100.0	97.00	97	75-125	10	30

Antimony			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220747	100.0	113.5	114	75-125		
BSD	QC220748	100.0	107.0	107	75-125	6	30

Zinc			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83188
Units:	mg/Kg	Prepared:	07/26/03
Basis:	as received	Analyzed:	07/28/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220337	25.00	23.95	96	75-125		
BSD	QC220338	25.00	23.70	95	75-125	1	30

Zinc			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83259
Units:	mg/Kg	Prepared:	07/29/03
Basis:	as received	Analyzed:	07/30/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220618	25.00	23.70	95	75-125		
BSD	QC220619	25.00	21.40	86	75-125	10	30

Zinc

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83296
Units:	mg/Kg	Prepared:	07/30/03
Basis:	as received	Analyzed:	07/31/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220747	25.00	23.60	94	75-125		
BSD	QC220748	25.00	23.35	93	75-125	1	30

Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC220339

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	5,293	828.0	6,855 >LR	189 NM	75-125
Antimony	0.6095	82.80	61.27	73 *	75-125
Arsenic	1.713	41.40	41.81	97	75-125
Barium	43.90	82.80	131.2	105	75-125
Beryllium	0.1875	2.070	2.169	96	75-125
Cadmium	0.7459	8.280	8.528	94	75-125
Chromium	18.33	82.80	94.39	92	75-125
Cobalt	4.087	20.70	23.76	95	75-125
Copper	12.74	10.35	27.28	140 *	75-125
Iron	7,109	828.0	8,992 >LR	227 NM	75-125
Lead	0.7586	82.80	82.80	99	75-125
Magnesium	2,176	828.0	3,704	185 *	75-125
Manganese	119.3	20.70	147.0	133 NM	75-125
Nickel	17.56	20.70	42.23	119	75-125
Selenium	0.1453	41.40	40.45	97	75-125
Silver	<0.02323	8.280	7.617	92	75-125
Thallium	<0.1313	41.40	37.55	91	75-125
Vanadium	18.50	20.70	39.20	100	75-125
Zinc	17.39	20.70	41.81	118	75-125

Type: MSD
Lab ID: QC220340

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	863.3	8,068 >LR	321 NM	75-125	NC	30
Antimony	86.33	52.66	60 *	75-125	19	30
Arsenic	43.17	45.33	101	75-125	4	30
Barium	86.33	149.8	123	75-125	10	30
Beryllium	2.158	2.374	101	75-125	5	30
Cadmium	8.633	9.281	99	75-125	5	30
Chromium	86.33	105.3	101	75-125	8	30
Cobalt	21.58	25.73	100	75-125	4	30
Copper	10.79	29.74	158 *	75-125	7	30
Iron	863.3	10,540 >LR	397 NM	75-125	NC	30
Lead	86.33	88.49	102	75-125	3	30
Magnesium	863.3	3,898	199 *	75-125	4	30
Manganese	21.58	167.5	223 NM	75-125	12	30
Nickel	21.58	46.19	133 *	75-125	7	30
Selenium	43.17	41.96	97	75-125	0	30
Silver	8.633	8.072	94	75-125	2	30
Thallium	43.17	39.84	92	75-125	2	30
Vanadium	21.58	45.33	124	75-125	12	30
Zinc	21.58	47.48	139 *	75-125	10	30

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference
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Target Analyte List Metals			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB13[0.3]	Diln Fac:	1.000
MSS Lab ID:	166561-001	Batch#:	83259
Matrix:	Soil	Sampled:	07/24/03
Units:	mg/Kg	Received:	07/25/03
Basis:	dry	Prepared:	07/29/03

Type:	MS	Moisture:	1%
Lab ID:	QC220620		

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Antimony	1.995	78.30	61.08	75	75-125	07/31/03
Barium	11.99	78.30	87.70	97	75-125	07/30/03
Copper	2.628	9.788	12.14	97	75-125	07/30/03
Lead	0.7377	78.30	76.34	97	75-125	07/30/03
Zinc	15.17	19.58	31.95	86	75-125	07/30/03

Type:	MSD	Moisture:	1%
Lab ID:	QC220621		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	97.13	79.16	79	75-125	5	30	07/31/03
Barium	97.13	103.9	95	75-125	2	30	07/30/03
Copper	12.14	14.47	98	75-125	0	30	07/30/03
Lead	97.13	93.73	96	75-125	1	30	07/30/03
Zinc	24.28	36.23	87	75-125	0	30	07/30/03

RPD= Relative Percent Difference
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Target Analyte List Metals

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03
Diln Fac:	1.000		

Type: MS Moisture: 5%
 Lab ID: QC220749

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5647	81.92	43.42	52 *	75-125
Barium	22.59	81.92	101.6	96	75-125
Copper	4.698	10.24	13.48	86	75-125
Lead	2.530	81.92	77.00	91	75-125
Zinc	20.19	20.48	34.98	72 *	75-125

Type: MSD Moisture: 5%
 Lab ID: QC220750

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	91.14	51.95	56 *	75-125	7	30
Barium	91.14	103.9	89	75-125	6	30
Copper	11.39	13.90	81	75-125	4	30
Lead	91.14	83.39	89	75-125	2	30
Zinc	22.78	36.91	73 *	75-125	0	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Barium			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220339	43.90	82.80	131.2	105	75-125	1%		
MSD	QC220340		86.33	149.8	123	75-125	1%	10	30

Barium			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB13 [0.3]	Batch#:	83259
MSS Lab ID:	166561-001	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220620	11.99	78.30	87.70	97	75-125	1%		
MSD	QC220621		97.13	103.9	95	75-125	1%	2	30

**Barium**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220749	22.59	81.92	101.6	96	75-125	5%		
MSD	QC220750		91.14	103.9	89	75-125	5%	6	30

Copper

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220339	12.74	10.35	27.28	140 *	75-125	1%		
MSD	QC220340		10.79	29.74	158 *	75-125	1%	7	30

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
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Copper

Lab #: 166561
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analyte: Copper
 Field ID: LCBSB13 [0.3]
 MSS Lab ID: 166561-001
 Matrix: Soil
 Units: mg/Kg
 Basis: dry

Location: Presidio Firing Ranges
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Batch#: 83259
 Sampled: 07/24/03
 Received: 07/25/03
 Prepared: 07/29/03
 Analyzed: 07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220620	2.628	9.788	12.14	97	75-125	1%		
MSD	QC220621		12.14	14.47	98	75-125	1%	0	30

Copper			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220749	4.698	10.24	13.48	86	75-125	5%		
MSD	QC220750		11.39	13.90	81	75-125	5%	4	30

Lead			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220339	0.7586	82.80	82.80	99	75-125	1%		
MSD	QC220340		86.33	88.49	102	75-125	1%	3	30

**Lead**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB13 [0.3]	Batch#:	83259
MSS Lab ID:	166561-001	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220620	0.7377	78.30	76.34	97	75-125	1%		
MSD	QC220621		97.13	93.73	96	75-125	1%	1	30

Lead			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220749	2.530	81.92	77.00	91	75-125	5%		
MSD	QC220750		91.14	83.39	89	75-125	5%	2	30

Antimony			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220339	0.6095	82.80	61.27	73 *	75-125	1%		
MSD	QC220340		86.33	52.66	60 *	75-125	1%	19	30

**Antimony**

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB13[0.3]	Batch#:	83259
MSS Lab ID:	166561-001	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220620	1.995	78.30	61.08	75	75-125	1%		
MSD	QC220621		97.13	79.16	79	75-125	1%	5	30

Antimony			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220749	0.5647	81.92	43.42	52 *	75-125	5%		
MSD	QC220750		91.14	51.95	56 *	75-125	5%	7	30

Zinc

Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	83188
MSS Lab ID:	166550-001	Sampled:	07/23/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/26/03
Basis:	dry	Analyzed:	07/28/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220339	17.39	20.70	41.81	118	75-125	1%		
MSD	QC220340		21.58	47.48	139 *	75-125	1%	10	30

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
 Page 1 of 1

Zinc			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCBSB13[0.3]	Batch#:	83259
MSS Lab ID:	166561-001	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/29/03
Basis:	dry	Analyzed:	07/30/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220620	15.17	19.58	31.95	86	75-125	1%		
MSD	QC220621		24.28	36.23	87	75-125	1%	0	30

Zinc			
Lab #:	166561	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	DUP072403D	Batch#:	83296
MSS Lab ID:	166561-022	Sampled:	07/24/03
Matrix:	Soil	Received:	07/25/03
Units:	mg/Kg	Prepared:	07/30/03
Basis:	dry	Analyzed:	07/31/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220749	20.19	20.48	34.98	72 *	75-125	5%		
MSD	QC220750		22.78	36.91	73 *	75-125	5%	0	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
 Segnum : 73301367073
 Filename : tr211567
 IDF : 5.0
 PDF : 42.19409
 Run type : SER
 Samplenum: QC220341
 Matrix : Soil
 Batchnum : 83188
 Inj : 28-JUL-2003 13:00
 Units : mg/Kg

MSS : 166550-001

Analyte	MSS Segnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	73301367072	ND	2.53	ND	12.7	--	10	u
Arsenic	73301367072	1.70	0.211	ND	1.05	--	10	u
Barium	73301367072	43.5	0.422	43.7	2.11	0	10	u
Beryllium	73301367072	0.186	0.0844	0.498	0.422	--	10	u
Cadmium	73301367072	0.738	0.211	ND	1.05	--	10	u
Calcium	73301367072	2120	21.1	2180	105	3	10	u
Chromium	73301367072	18.1	0.422	18.5	2.11	2	10	u
Cobalt	73301367072	4.05	0.844	ND	4.22	--	10	u
Copper	73301367072	12.6	0.422	12.0	2.11	5	10	u
Iron	*** usable MSS data not found ***							
Lead	73301367072	0.751	0.127	0.743	0.633	--	10	a
Magnesium	73301367072	2150	21.1	2220	105	3	10	u
Manganese	73301367072	118	0.422	121	2.11	2	10	u
Molybdenum	73301367072	ND	0.844	ND	4.22	--	10	u
Nickel	73301367072	17.4	0.844	17.9	4.22	3	10	u
Selenium	73301367077	ND	0.211	ND	1.05	--	10	
Silver	73301367072	ND	0.211	ND	1.05	--	10	u
Thallium	73301367072	ND	0.211	ND	1.05	--	10	u
Vanadium	73301367072	18.3	0.422	18.4	2.11	0	10	u
Zinc	73301367072	17.2	0.844	18.3	4.22	6	10	u
Titanium	73301367072	226	0.422	228	2.11	1	10	u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
 Segnum : 73301367076
 Filename : tr211570
 IDF : 5.0
 PDF : 42.19409
 Run type : SER
 Samplenum: QC220341
 Matrix : Soil
 Batchnum : 83188
 Inj : 28-JUL-2003 13:13
 Units : mg/Kg

MSS : 166550-001

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	73301367072	ND	2.53	ND	12.7	--	10	
Arsenic	73301367072	1.70	0.211	1.83	1.05	--	10	ab*
Barium	73301367072	43.5	0.422	42.8	2.11	1	10	
Beryllium	73301367072	0.186	0.0844	0.481	0.422	--	10	
Cadmium	73301367072	0.738	0.211	ND	1.05	--	10	
Calcium	73301367072	2120	21.1	2110	105	1	10	
Chromium	73301367072	18.1	0.422	18.1	2.11	0	10	
Cobalt	73301367072	4.05	0.844	ND	4.22	--	10	
Copper	73301367072	12.6	0.422	11.7	2.11	7	10	
Iron	*** usable MSS data not found ***							
Lead	73301367072	0.751	0.127	1.20	0.633	--	10	au
Magnesium	73301367072	2150	21.1	2160	105	0	10	
Manganese	73301367072	118	0.422	118	2.11	1	10	
Molybdenum	73301367072	ND	0.844	ND	4.22	--	10	
Nickel	73301367072	17.4	0.844	17.6	4.22	1	10	
Selenium	73301367077	ND	0.211	1.32	1.05	--	10	u
Silver	73301367072	ND	0.211	ND	1.05	--	10	
Thallium	73301367072	ND	0.211	1.34	1.05	--	10	ab*
Vanadium	73301367072	18.3	0.422	18.1	2.11	1	10	
Zinc	73301367072	17.2	0.844	17.8	4.22	4	10	
Titanium	73301367072	226	0.422	222	2.11	2	10	

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73302834035	Seqnum : 73302834036
Filename : tr211675	Filename : tr211676
IDF : 10.0	IDF : 50.0
PDF : 42.19409	PDF : 42.19409
Run type : MSS	Run type : SER
Samplenum: 166550-001	Samplenum: QC220341
Matrix : Soil	Matrix : Soil
Batchnum : 83188	Batchnum : 83188
Inj : 29-JUL-2003 10:05	Inj : 29-JUL-2003 10:09
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	5240	42.2	5120	211	2	10		u
Antimony	ND	25.3	ND	127	--	10		
Arsenic	ND	2.11	ND	10.5	--	10		
Barium	43.0	4.22	43.0	21.1	0	10		
Beryllium	ND	0.844	ND	4.22	--	10		
Cadmium	ND	2.11	ND	10.5	--	10		
Calcium	2330	211	2540	1050	9	10		
Chromium	18.6	4.22	ND	21.1	--	10		
Cobalt	ND	8.44	ND	42.2	--	10		
Copper	13.3	4.22	ND	21.1	--	10		
Iron	7040	42.2	7060	211	0	10		u
Lead	ND	1.27	ND	6.33	--	10		
Magnesium	2200	211	2230	1050	1	10		
Manganese	123	4.22	124	21.1	1	10		
Molybdenum	ND	8.44	ND	42.2	--	10		
Nickel	17.6	8.44	ND	42.2	--	10		
Selenium	ND	2.11	ND	10.5	--	10		
Silver	ND	2.11	ND	10.5	--	10		
Thallium	ND	2.11	ND	10.5	--	10		
Vanadium	18.4	4.22	ND	21.1	--	10		
Zinc	17.3	8.44	ND	42.2	--	10		
Titanium	224	4.22	226	21.1	1	10		

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285132	Seqnum : 73304285133
Filename : tr211927	Filename : tr211928
IDF : 1.0	IDF : 5.0
PDF : 41.49378	PDF : 41.49378
Run type : MSS	Run type : SER
Samplenum: 166561-001	Samplenum: QC220622
Matrix : Soil	Matrix : Soil
Batchnum : 83259	Batchnum : 83259
Inj : 30-JUL-2003 18:01	Inj : 30-JUL-2003 18:05
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.49	ND	12.4	--	10	1u
Arsenic	2.71	0.207	2.86	1.04	6	10	u
Barium	11.9	0.415	11.5	2.07	3	10	u
Beryllium	0.212	0.0830	ND	0.415	--	10	u
Cadmium	0.884	0.207	ND	1.04	--	10	u
Calcium	2850	20.7	2870	104	0	10	u
Chromium	27.3	0.415	27.8	2.07	2	10	u
Cobalt	4.56	0.830	4.34	4.15	--	10	u
Copper	2.60	0.415	2.34	2.07	--	10	u
Iron	*** usable MSS data not found ***						
Lead	0.730	0.124	0.695	0.622	--	10	ab*
Magnesium	2080	20.7	2080	104	0	10	u
Manganese	116	0.415	116	2.07	0	10	u
Molybdenum	ND	0.830	ND	4.15	--	10	u
Nickel	23.2	0.830	23.2	4.15	0	10	u
Selenium	*** usable MSS data not found ***						
Silver	ND	0.207	ND	1.04	--	10	u
Thallium	*** usable MSS data not found ***						
Vanadium	23.0	0.415	22.6	2.07	2	10	u
Zinc	15.0	0.830	14.8	4.15	2	10	u
Titanium	390	0.415	378	2.07	3	10	u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73304285132	Seqnum : 73305699028
Filename : tr211927	Filename : tr211990
IDF : 1.0	IDF : 5.0
PDF : 41.49378	PDF : 41.49378
Run type : MSS	Run type : SER
Samplenum: 166561-001	Samplenum: QC220622
Matrix : Soil	Matrix : Soil
Batchnum : 83259	Batchnum : 83259
Inj : 30-JUL-2003 18:01	Inj : 31-JUL-2003 09:51
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.49	ND	12.4	--	10	
Arsenic	2.71	0.207	1.73	1.04	36	10	f
Barium	11.9	0.415	11.4	2.07	4	10	
Beryllium	0.212	0.0830	ND	0.415	--	10	
Cadmium	0.884	0.207	ND	1.04	--	10	
Calcium	2850	20.7	2720	104	5	10	
Chromium	27.3	0.415	27.0	2.07	1	10	
Cobalt	4.56	0.830	4.50	4.15	--	10	
Copper	2.60	0.415	3.11	2.07	--	10	
Iron	*** usable MSS data not found ***						
Lead	0.730	0.124	ND	0.622	--	10	u
Magnesium	2080	20.7	2050	104	1	10	
Manganese	116	0.415	113	2.07	3	10	
Molybdenum	ND	0.830	ND	4.15	--	10	
Nickel	23.2	0.830	22.8	4.15	2	10	
Selenium	*** usable MSS data not found ***						
Silver	ND	0.207	ND	1.04	--	10	
Thallium	*** usable MSS data not found ***						
Vanadium	23.0	0.415	22.0	2.07	5	10	
Zinc	15.0	0.830	14.7	4.15	2	10	
Titanium	390	0.415	369	2.07	5	10	

f=recovery failure u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73305699090	Seqnum : 73305699091
Filename : tr212052	Filename : tr212053
IDF : 1.0	IDF : 5.0
PDF : 42.91845	PDF : 42.91845
Run type : MSS	Run type : SER
Samplenum: 166561-022	Samplenum: QC220751
Matrix : Soil	Matrix : Soil
Batchnum : 83296	Batchnum : 83296
Inj : 31-JUL-2003 14:57	Inj : 31-JUL-2003 15:00
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.58	ND	12.9	--	10	u
Arsenic	2.62	0.215	2.75	1.07	5	10	ab*
Barium	21.5	0.429	20.2	2.15	6	10	u
Beryllium	0.231	0.0858	0.541	0.429	--	10	u
Cadmium	1.20	0.215	1.11	1.07	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	32.8	0.429	31.1	2.15	5	10	u
Cobalt	5.84	0.858	5.45	4.29	--	10	u
Copper	4.46	0.429	3.69	2.15	17	10	fu
Iron	*** usable MSS data not found ***						
Lead	2.40	0.129	1.90	0.644	21	10	fu
Magnesium	2440	21.5	2340	107	4	10	u
Manganese	150	0.429	142	2.15	5	10	u
Molybdenum	ND	0.858	ND	4.29	--	10	u
Nickel	25.4	0.858	24.2	4.29	4	10	u
Selenium	ND	0.215	ND	1.07	--	10	u
Silver	ND	0.215	ND	1.07	--	10	u
Thallium	ND	0.215	ND	1.07	--	10	u
Vanadium	30.1	0.429	28.3	2.15	6	10	u
Zinc	19.2	0.858	18.8	4.29	2	10	u
Titanium	*** usable MSS data not found ***						

a=rsd out b=noncompliant f=recovery failure u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73302834033
Filename : tr211673
IDF : 1.0
PDF : 42.19409
Run type : PDS
Samplenum: QC220466
Matrix : Soil
Batchnum : 83188
Inj : 29-JUL-2003 09:58
Units : ug/L

MSS : 166550-001

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73302834035	12420	20000	148600 >LR 122	15-150	:>u
Antimony	73301367072	14.30	2000	2200 109	15-123	u
Arsenic	73301367072	40.20	1000	1090 105	40-126	u
Barium	73301367072	1030	2000	3130 105	19-138	u
Beryllium	73301367072	4.400	50	54.00 99	58-120	u
Cadmium	73301367072	17.50	200	216.0 99	47-120	u
Calcium	73301367072	50290	20000	69540 96	16-150	u
Chromium	73301367072	430.0	2000	2480 103	35-131	u
Cobalt	73301367072	95.90	500	597.0 100	39-120	u
Copper	73301367072	299.0	250	574.0 110	32-150	u
Iron	73302834035	16680	20000	183700 >LR 85	15-150	:>u
Lead	73301367072	17.80	2000	2000 99	23-137	u
Magnesium	73301367072	51060	20000	71340 101	20-150	u
Manganese	73301367072	2800	500	3370 114	15-150	:u
Molybdenum	73301367072	10.10	400	435.0 106	28-120	u
Nickel	73301367072	412.0	500	907.0 99	32-136	u
Selenium	73301367077	3.410	1000	972.0 97	38-120	u
Silver	73301367072	ND	200	208.0 104	55-120	u
Thallium	73301367072	ND	1000	981.0 98	50-120	u
Vanadium	73301367072	434.0	500	956.0 104	25-130	u
Zinc	73301367072	408.0	500	896.0 98	20-147	u
Titanium	73301367072	5360	1000	6480 112	15-150	:u

: =recovery not meaningful >=>LR u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73305699090	Seqnum : 73305699111
Filename : tr212052	Filename : tr212073
IDF : 1.0	IDF : 1.0
PDF : 42.91845	PDF : 42.91845
Run type : MSS	Run type : PDS
Samplenum: 166561-022	Samplenum: QC220908
Matrix : Soil	Matrix : Soil
Batchnum : 83296	Batchnum : 83296
Inj : 31-JUL-2003 14:57	Inj : 31-JUL-2003 16:28
Units : ug/L	

Analyte	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***				
Antimony	12.50	2000	2370 118	15-123	u
Arsenic	61.00	1000	1060 100	40-126	u
Barium	500.0	2000	2500 100	19-138	u
Beryllium	5.390	50	54.80 99	58-120	u
Cadmium	27.90	200	216.0 94	47-120	u
Calcium	*** usable MSS data not found ***				
Chromium	765.0	2000	2680 96	35-131	u
Cobalt	136.0	500	607.0 94	39-120	u
Copper	104.0	250	363.0 104	32-150	u
Iron	*** usable MSS data not found ***				
Lead	56.00	2000	1970 96	23-137	u
Magnesium	56760	20000	74600 89	20-150	u
Manganese	3490	500	3850 72	15-150	:u
Molybdenum	3.160	400	411.0 102	28-120	u
Nickel	591.0	500	1040 90	32-136	u
Selenium	ND	1000	912.0 91	38-120	u
Silver	ND	200	197.0 99	55-120	u
Thallium	ND	1000	989.0 99	50-120	u
Vanadium	702.0	500	1170 94	25-130	u
Zinc	447.0	500	878.0 86	20-147	u
Titanium	*** usable MSS data not found ***				

:=recovery not meaningful u=use

Method: 6010B Standard: blank

Run Time: 07/28/03 06:36:10

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.001	.002	-.114	.001	.000
SDev	.000	.001	.000	.000	.000	.000	.000
%RSD	56.4	391.	91.0	11.5	.143	26.3	10.0
#1	-.001	-.000	-.000	.002	-.114	.002	.000
#2	-.000	.001	-.001	.002	-.114	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.002	-.000	.000	.000	-.003
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	22.1	4.47	26.3	136.	75.3	96.8	15.2
#1	-.000	-.004	.001	-.000	.000	.000	-.003
#2	-.000	-.003	.002	-.001	.000	.000	-.003
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.002	-.001	-.001	.000	.006	.0383	-.0066
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	18.3	44.8	16.7	149.	.747	.2375	.1498
#1	.002	-.001	-.001	-.000	.006	.0383	-.0066
#2	.003	-.000	-.001	.001	.006	.0384	-.0067
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0009	.0001	.000	.070			
SDev	.0001	.0001	.000	.000			
%RSD	8.056	70.82	68.3	.094			
#1	-.0009	.0001	.000	.070			
#2	-.0010	.0000	.000	.070			

Method: 6010B Standard: cst hi
Run Time: 07/28/03 06:42:12

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.195	.108	.044	5.93	.768	.249	.063
SDev	.005	.004	.000	.01	.001	.000	.000
%RSD	2.71	3.68	.105	.186	.062	.115	.062
#1	.192	.105	.044	5.94	.769	.249	.063
#2	.199	.111	.045	5.92	.768	.249	.063
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.168	.157	.187	.175	.336	.436	.045
SDev	.000	.001	.001	.000	.001	.000	.001
%RSD	.182	.412	.447	.089	.192	.035	1.97
#1	.168	.157	.186	.176	.336	.436	.045
#2	.168	.156	.188	.175	.337	.436	.046
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.056	.094	.030	.244	.039	.0700	.0744
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	.927	.261	1.32	.130	.236	.1195	.0041
#1	.056	.094	.030	.244	.039	.0701	.0744
#2	.057	.093	.030	.244	.039	.0699	.0744
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0317	.0473	.271	2.29			
SDev	.0001	.0000	.000	.00			
%RSD	.4614	.0417	.108	.101			
#1	.0318	.0473	.271	2.29			
#2	.0316	.0472	.271	2.29			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5074.12	3.59583	07/28/03 06:42:12
Sb206A	206.832	Multiple	Standards	9122.49	-2.06463	07/28/03 06:42:12
As1890	189.042	Multiple	Standards	11128.6	5.58351	07/28/03 06:42:12
Ba4934	493.409	Multiple	Standards	168.734	-.302904	07/28/03 06:42:12
Be3130	313.042	Multiple	Standards	109.488	12.4877	07/28/03 06:42:12
Cd2265	226.502	Multiple	Standards	402.860	-.509894	07/28/03 06:42:12
Cr2677	267.716	Multiple	Standards	3184.22	-.941737	07/28/03 06:42:12
Co2286	228.616	Multiple	Standards	2973.57	.920420	07/28/03 06:42:12
Cu3247	324.754	Multiple	Standards	1248.52	4.34639	07/28/03 06:42:12
Pb2203	220.351	Multiple	Standards	2699.13	-4.47287	07/28/03 06:42:12
Pb220A	220.352	Multiple	Standards	2823.58	1.08640	07/28/03 06:42:12
Mo2020	202.030	Multiple	Standards	2975.57	-.613598	07/28/03 06:42:12
Ni2316	231.604	Multiple	Standards	1144.95	-.299432	07/28/03 06:42:12
Se1960	196.021	Multiple	Standards	10309.5	31.3356	07/28/03 06:42:12
Se196A	196.022	Multiple	Standards	9285.91	-23.0516	07/28/03 06:42:12
Ag3280	328.068	Multiple	Standards	1062.41	.555485	07/28/03 06:42:12
Tl1908	190.864	Multiple	Standards	16278.5	12.2016	07/28/03 06:42:12
V_2924	292.402	Multiple	Standards	2049.85	-.506978	07/28/03 06:42:12
Zn2138	213.856	Multiple	Standards	3174.02	-20.4322	07/28/03 06:42:12
Al3082	308.215	Multiple	Standards	32000.9	-1226.97	07/28/03 06:42:12
Ca3179	317.933	Multiple	Standards	24682.2	163.978	07/28/03 06:42:12
Fe2714	271.441	Multiple	Standards	31966.1	30.3368	07/28/03 06:42:12
Mg2790	279.079	Multiple	Standards	42388.4	-3.50006	07/28/03 06:42:12
Mn2576	257.610	Multiple	Standards	369.557	-.078751	07/28/03 06:42:12
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/28/03 06:42:12
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/28/03 06:42:12
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/28/03 06:42:12
Ti3349	334.941	Multiple	Standards	450.028	-31.4116	07/28/03 06:42:12

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367001

Run Name :
Filename : tr211495

Injected : 28-JUL-2003 06:47
Caltpe :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1034.000	ug/L	3	5	
Antimony	1000.000	1030.000	ug/L	3	5	
Arsenic	500.0000	509.0000	ug/L	2	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2039.000	ug/L	2	5	
Chromium	200.0000	203.0000	ug/L	2	5	
Cobalt	500.0000	511.0000	ug/L	2	5	
Copper	200.0000	202.0000	ug/L	1	5	
Iron	1000.000	1015.000	ug/L	2	5	
Lead	500.0000	508.0000	ug/L	2	5	
Magnesium	2000.000	2044.000	ug/L	2	5	
Manganese	100.0000	102.0000	ug/L	2	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	512.0000	ug/L	2	5	
Selenium	500.0000	513.0000	ug/L	3	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	511.0000	ug/L	2	5	
Titanium	1000.000	1020.000	ug/L	2	5	
Vanadium	500.0000	510.0000	ug/L	2	5	
Zinc	100.0000	103.0000	ug/L	3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367002

Run Name :
Filename : tr211496

Injected : 28-JUL-2003 07:16
Caltpe :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	456.6000	ug/L	-9	10	
Antimony	500.0000	546.0000	ug/L	9	10	
Arsenic	250.0000	244.0000	ug/L	-2	10	
Barium	500.0000	475.0000	ug/L	-5	10	
Beryllium	50.00000	50.40000	ug/L	1	10	
Cadmium	50.00000	47.20000	ug/L	-6	10	
Calcium	1000.000	963.2000	ug/L	-4	10	
Chromium	100.0000	96.80000	ug/L	-3	10	
Cobalt	250.0000	242.0000	ug/L	-3	10	
Copper	100.0000	97.60000	ug/L	-2	10	
Iron	500.0000	484.7000	ug/L	-3	10	
Lead	250.0000	240.0000	ug/L	-4	10	
Magnesium	1000.000	988.0000	ug/L	-1	10	
Manganese	50.00000	48.10000	ug/L	-4	10	
Molybdenum	500.0000	455.0000	ug/L	-9	10	
Nickel	250.0000	246.0000	ug/L	-2	10	
Selenium	250.0000	233.0000	ug/L	-7	10	
Silver	50.00000	47.50000	ug/L	-5	10	
Thallium	250.0000	254.0000	ug/L	2	10	
Titanium	500.0000	491.0000	ug/L	-2	10	
Vanadium	250.0000	240.0000	ug/L	-4	10	
Zinc	50.00000	49.60000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367004

Run Name :
Filename : tr211498

Injected : 28-JUL-2003 08:03
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	106.5000	ug/L	7	50	
Antimony	60.00000	66.60000	ug/L	11	50	
Arsenic	5.000000	6.460000	ug/L	29	50	
Barium	10.00000	9.710000	ug/L	-3	50	
Beryllium	2.000000	2.790000	ug/L	40	50	
Cadmium	5.000000	4.620000	ug/L	-8	50	
Chromium	10.00000	9.610000	ug/L	-4	50	
Cobalt	20.00000	18.70000	ug/L	-7	50	
Copper	10.00000	8.590000	ug/L	-14	50	
Iron	100.0000	101.1000	ug/L	1	50	
Lead	3.000000	3.580000	ug/L	19	50	
Manganese	10.00000	9.650000	ug/L	-4	50	
Molybdenum	20.00000	17.90000	ug/L	-11	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	4.080000	ug/L	-18	50	
Silver	5.000000	4.640000	ug/L	-7	50	
Thallium	5.000000	7.090000	ug/L	42	50	
Vanadium	10.00000	9.710000	ug/L	-3	50	
Zinc	20.00000	21.50000	ug/L	8	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367014

Run Name :
Filename : tr211508

Injected : 28-JUL-2003 09:01
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	476.8000	ug/L	-5	10	
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	51.80000	ug/L	4	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	986.1000	ug/L	-1	10	
Chromium		100.0000	98.70000	ug/L	-1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	99.10000	ug/L	-1	10	
Iron		500.0000	490.7000	ug/L	-2	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	463.0000	ug/L	-7	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	256.0000	ug/L	2	10	
Silver		50.00000	49.40000	ug/L	-1	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	52.50000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367026

Run Name :
Filename : tr211520

Injected : 28-JUL-2003 10:00
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	712.0000	ug/L	-5		10	
Antimony		750.0000	800.0000	ug/L	7		10	
Arsenic		375.0000	374.0000	ug/L	0		10	
Barium		750.0000	726.0000	ug/L	-3		10	
Beryllium		75.00000	77.60000	ug/L	3		10	
Cadmium		75.00000	73.40000	ug/L	-2		10	
Calcium		1500.000	1498.000	ug/L	0		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	371.0000	ug/L	-1		10	
Copper		150.0000	150.0000	ug/L	0		10	
Iron		750.0000	765.8000	ug/L	2		10	
Lead		375.0000	385.0000	ug/L	3		10	
Magnesium		1500.000	1526.000	ug/L	2		10	
Manganese		75.00000	73.60000	ug/L	-2		10	
Molybdenum		750.0000	709.0000	ug/L	-5		10	
Nickel		375.0000	381.0000	ug/L	2		10	
Selenium		375.0000	393.0000	ug/L	5		10	
Silver		75.00000	74.90000	ug/L	0		10	
Thallium		375.0000	362.0000	ug/L	-3		10	
Titanium		750.0000	745.0000	ug/L	-1		10	
Vanadium		375.0000	367.0000	ug/L	-2		10	
Zinc		75.00000	74.90000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367038

Run Name :
Filename : tr211532

Injected : 28-JUL-2003 10:49
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	466.7000	ug/L	-7	10	
Antimony		500.0000	475.0000	ug/L	-5	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	477.0000	ug/L	-5	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	48.00000	ug/L	-4	10	
Calcium		1000.000	1002.000	ug/L	0	10	
Chromium		100.0000	97.10000	ug/L	-3	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	98.20000	ug/L	-2	10	
Iron		500.0000	523.7000	ug/L	5	10	
Lead		250.0000	268.0000	ug/L	7	10	
Magnesium		1000.000	1014.000	ug/L	1	10	
Manganese		50.00000	48.30000	ug/L	-3	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	265.0000	ug/L	6	10	
Silver		50.00000	49.70000	ug/L	-1	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	51.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367050

Run Name :
Filename : tr211544

Injected : 28-JUL-2003 11:32
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	780.0000	ug/L	4	10	
Antimony		750.0000	789.0000	ug/L	5	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	718.0000	ug/L	-4	10	
Beryllium		75.00000	77.60000	ug/L	3	10	
Cadmium		75.00000	72.40000	ug/L	-3	10	
Calcium		1500.000	1493.000	ug/L	0	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	896.1000	ug/L	19	10	1 ***
Lead		375.0000	391.0000	ug/L	4	10	
Magnesium		1500.000	1550.000	ug/L	3	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	713.0000	ug/L	-5	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	392.0000	ug/L	5	10	
Silver		75.00000	74.00000	ug/L	-1	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	77.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367062

Run Name :
Filename : tr211556

Injected : 28-JUL-2003 12:18
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	461.4000	ug/L	-8		10	
Antimony		500.0000	472.0000	ug/L	-6		10	
Arsenic		250.0000	255.0000	ug/L	2		10	
Barium		500.0000	484.0000	ug/L	-3		10	
Beryllium		50.00000	52.80000	ug/L	6		10	
Cadmium		50.00000	49.50000	ug/L	-1		10	
Calcium		1000.000	969.6000	ug/L	-3		10	
Chromium		100.0000	98.80000	ug/L	-1		10	
Cobalt		250.0000	249.0000	ug/L	0		10	
Copper		100.0000	98.50000	ug/L	-2		10	
Iron		500.0000	490.2000	ug/L	-2		10	
Lead		250.0000	270.0000	ug/L	8		10	
Magnesium		1000.000	1024.000	ug/L	2		10	
Manganese		50.00000	48.00000	ug/L	-4		10	
Molybdenum		500.0000	488.0000	ug/L	-2		10	
Nickel		250.0000	258.0000	ug/L	3		10	
Selenium		250.0000	269.0000	ug/L	8		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	251.0000	ug/L	0		10	
Titanium		500.0000	503.0000	ug/L	1		10	
Vanadium		250.0000	245.0000	ug/L	-2		10	
Zinc		50.00000	52.70000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367074

Run Name :
Filename : tr211568

Injected : 28-JUL-2003 13:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	710.7000	ug/L	-5	10	
Antimony		750.0000	778.0000	ug/L	4	10	
Arsenic		375.0000	379.0000	ug/L	1	10	
Barium		750.0000	716.0000	ug/L	-5	10	
Beryllium		75.00000	77.00000	ug/L	3	10	
Cadmium		75.00000	72.80000	ug/L	-3	10	
Calcium		1500.000	1405.000	ug/L	-6	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	143.0000	ug/L	-5	10	
Iron		750.0000	734.7000	ug/L	-2	10	
Lead		375.0000	382.0000	ug/L	2	10	
Magnesium		1500.000	1494.000	ug/L	0	10	
Manganese		75.00000	69.70000	ug/L	-7	10	
Molybdenum		750.0000	704.0000	ug/L	-6	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	398.0000	ug/L	6	10	
Silver		75.00000	72.70000	ug/L	-3	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	729.0000	ug/L	-3	10	
Vanadium		375.0000	356.0000	ug/L	-5	10	
Zinc		75.00000	75.30000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367086

Run Name :
Filename : tr211580

Injected : 28-JUL-2003 13:54
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	750.2000	ug/L	0		10	
Antimony		750.0000	792.0000	ug/L	-6		10	
Arsenic		375.0000	386.0000	ug/L	3		10	
Barium		750.0000	723.0000	ug/L	-4		10	
Beryllium		75.00000	76.90000	ug/L	3		10	
Cadmium		75.00000	73.40000	ug/L	-2		10	
Calcium		1500.000	1381.000	ug/L	-8		10	
Chromium		150.0000	145.0000	ug/L	-3		10	
Cobalt		375.0000	364.0000	ug/L	-3		10	
Copper		150.0000	143.0000	ug/L	-5		10	
Iron		750.0000	783.5000	ug/L	4		10	
Lead		375.0000	383.0000	ug/L	2		10	
Magnesium		1500.000	1504.000	ug/L	0		10	
Manganese		75.00000	70.00000	ug/L	-7		10	
Molybdenum		750.0000	706.0000	ug/L	-6		10	
Nickel		375.0000	382.0000	ug/L	2		10	
Selenium		375.0000	397.0000	ug/L	6		10	
Silver		75.00000	72.30000	ug/L	-4		10	
Thallium		375.0000	368.0000	ug/L	-2		10	
Titanium		750.0000	729.0000	ug/L	-3		10	
Vanadium		375.0000	356.0000	ug/L	-5		10	
Zinc		75.00000	76.10000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367098

Run Name :
Filename : tr211592

Injected : 28-JUL-2003 14:42
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	762.0000	ug/L	2		10	
Antimony		750.0000	810.0000	ug/L	8		10	
Arsenic		375.0000	379.0000	ug/L	1		10	
Barium		750.0000	724.0000	ug/L	-3		10	
Beryllium		75.00000	75.20000	ug/L	0		10	
Cadmium		75.00000	71.50000	ug/L	-5		10	
Calcium		1500.000	1468.000	ug/L	-2		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	364.0000	ug/L	-3		10	
Copper		150.0000	150.0000	ug/L	0		10	
Iron		750.0000	820.6000	ug/L	9		10	
Lead		375.0000	365.0000	ug/L	-3		10	
Magnesium		1500.000	1506.000	ug/L	0		10	
Manganese		75.00000	73.90000	ug/L	-1		10	
Molybdenum		750.0000	734.0000	ug/L	-2		10	
Nickel		375.0000	369.0000	ug/L	-2		10	
Selenium		375.0000	358.0000	ug/L	-5		10	
Silver		75.00000	73.90000	ug/L	-1		10	
Thallium		375.0000	353.0000	ug/L	-6		10	
Titanium		750.0000	741.0000	ug/L	-1		10	
Vanadium		375.0000	365.0000	ug/L	-3		10	
Zinc		75.00000	74.50000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367110

Run Name :
Filename : tr211604

Injected : 28-JUL-2003 15:34
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	507.0000	ug/L	1		10	
Antimony		500.0000	474.0000	ug/L	-5		10	
Arsenic		250.0000	249.0000	ug/L	0		10	
Barium		500.0000	486.0000	ug/L	-3		10	
Beryllium		50.00000	50.90000	ug/L	2		10	
Cadmium		50.00000	48.30000	ug/L	-3		10	
Calcium		1000.000	1396.000	ug/L	40		10	1 ***
Chromium		100.0000	97.10000	ug/L	-3		10	
Cobalt		250.0000	243.0000	ug/L	-3		10	
Copper		100.0000	98.70000	ug/L	-1		10	
Iron		500.0000	497.1000	ug/L	-1		10	
Lead		250.0000	242.0000	ug/L	-3		10	
Magnesium		1000.000	997.0000	ug/L	0		10	
Manganese		50.00000	48.30000	ug/L	-3		10	
Molybdenum		500.0000	480.0000	ug/L	-4		10	
Nickel		250.0000	247.0000	ug/L	-1		10	
Selenium		250.0000	234.0000	ug/L	-6		10	
Silver		50.00000	50.00000	ug/L	0		10	
Thallium		250.0000	239.0000	ug/L	-4		10	
Titanium		500.0000	499.0000	ug/L	0		10	
Vanadium		250.0000	243.0000	ug/L	-3		10	
Zinc		50.00000	50.50000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367121

Run Name :
Filename : tr211615

Injected : 28-JUL-2003 16:22
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	758.3000	ug/L	1	10	
Antimony		750.0000	796.0000	ug/L	6	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	721.0000	ug/L	-4	10	
Beryllium		75.00000	73.90000	ug/L	-1	10	
Cadmium		75.00000	71.20000	ug/L	-5	10	
Calcium		1500.000	1382.000	ug/L	-8	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	356.0000	ug/L	-5	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	783.5000	ug/L	4	10	
Lead		375.0000	339.0000	ug/L	-10	10	
Magnesium		1500.000	1472.000	ug/L	-2	10	
Manganese		75.00000	73.60000	ug/L	-2	10	
Molybdenum		750.0000	687.0000	ug/L	-8	10	
Nickel		375.0000	365.0000	ug/L	-3	10	
Selenium		375.0000	348.0000	ug/L	-7	10	
Silver		75.00000	71.90000	ug/L	-4	10	
Thallium		375.0000	352.0000	ug/L	-6	10	
Titanium		750.0000	726.0000	ug/L	-3	10	
Vanadium		375.0000	356.0000	ug/L	-5	10	
Zinc		75.00000	72.30000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367133

Run Name :
Filename : tr211627

Injected : 28-JUL-2003 17:11
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	510.7000	ug/L	2	10	
Antimony		500.0000	477.0000	ug/L	-5	10	
Arsenic		250.0000	249.0000	ug/L	0	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	48.50000	ug/L	-3	10	
Calcium		1000.000	870.8000	ug/L	-13	10	1 ***
Chromium		100.0000	95.70000	ug/L	-4	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	94.60000	ug/L	-5	10	
Iron		500.0000	467.3000	ug/L	-7	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	970.2000	ug/L	-3	10	
Manganese		50.00000	46.50000	ug/L	-7	10	
Molybdenum		500.0000	462.0000	ug/L	-8	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	231.0000	ug/L	-8	10	
Silver		50.00000	47.70000	ug/L	-5	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	493.0000	ug/L	-1	10	
Vanadium		250.0000	238.0000	ug/L	-5	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367142

Run Name :
Filename : tr211636

Injected : 28-JUL-2003 17:51
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	724.0000	ug/L	-3	10	
Antimony		750.0000	830.0000	ug/L	11	10	1 ***
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	74.30000	ug/L	-1	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1298.000	ug/L	-13	10	1 ***
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	143.0000	ug/L	-5	10	
Iron		750.0000	673.5000	ug/L	-10	10	
Lead		375.0000	365.0000	ug/L	-3	10	
Magnesium		1500.000	1433.000	ug/L	-4	10	
Manganese		75.00000	68.20000	ug/L	-9	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	363.0000	ug/L	-3	10	
Silver		75.00000	70.90000	ug/L	-5	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	731.0000	ug/L	-3	10	
Vanadium		375.0000	354.0000	ug/L	-6	10	
Zinc		75.00000	73.30000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367003
Filename: tr211497

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 28-JUL-2003 07:24

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[6.3200]		60.00000	ug/L	<RL	
Arsenic	[1.6200]		5.000000	ug/L	<RL	
Barium	[0.1070]		10.00000	ug/L	<RL	
Beryllium	[0.5910]		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	[0.2700]		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[5.6730]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	[3.5220]		500.0000	ug/L	<RL	
Manganese	[0.0990]		10.00000	ug/L	<RL	
Molybdenum	[2.4200]		20.00000	ug/L	<RL	
Nickel	[0.0980]		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	[0.2600]		5.000000	ug/L	<RL	
Thallium	[4.3900]		5.000000	ug/L	<RL	
Titanium	[3.6300]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	[1.7500]		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367015
Filename: tr211509

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 09:09

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4400]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.0710]		10.00000	ug/L	<	RL
Beryllium	[0.7860]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.3570]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[6.1810]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[2.1880]		500.0000	ug/L	<	RL
Manganese	[0.0680]		10.00000	ug/L	<	RL
Molybdenum	[1.0600]		20.00000	ug/L	<	RL
Nickel	[0.1950]		20.00000	ug/L	<	RL
Selenium	[1.2400]		5.000000	ug/L	<	RL
Silver	[0.2660]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[4.1100]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.9600]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367027
Filename: tr211521

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 10:03

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.600]	60.00000	ug/L	<RL	
Arsenic	[0.1550]	5.000000	ug/L	<RL	
Barium	[0.3940]	10.00000	ug/L	<RL	
Beryllium	[0.0740]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[15.410]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[7.7700]	500.0000	ug/L	<RL	
Manganese	[0.4060]	10.00000	ug/L	<RL	
Molybdenum	[10.100]	20.00000	ug/L	<RL	
Nickel	[0.1220]	20.00000	ug/L	<RL	
Selenium	[2.3000]	5.000000	ug/L	<RL	
Silver	[0.6920]	5.000000	ug/L	<RL	
Thallium	[1.7900]	5.000000	ug/L	<RL	
Titanium	[0.9510]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.7900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73301367039
Filename: tr211533

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 10:52

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[1.3930]	100.0000	ug/L	<RL		
Antimony	[14.800]	60.00000	ug/L	<RL		
Arsenic	[1.3700]	5.000000	ug/L	<RL		
Barium	[0.3120]	10.00000	ug/L	<RL		
Beryllium	[0.1490]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[1.4060]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.5700]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[31.300]	100.0000	ug/L	<RL		
Lead	[0.1690]	3.000000	ug/L	<RL		
Magnesium	[11.270]	500.0000	ug/L	<RL		
Manganese	[0.4020]	10.00000	ug/L	<RL		
Molybdenum	[6.4600]	20.00000	ug/L	<RL		
Nickel	[0.3690]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[0.7160]	10.00000	ug/L	<RL		
Vanadium	[0.0080]	10.00000	ug/L	<RL		
Zinc	[2.1800]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367051
Filename: tr211545

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 11:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[11.640]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	[3.0100]	5.000000	ug/L	<RL		
Barium	[0.4660]	10.00000	ug/L	<RL		
Beryllium	[0.3900]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.0150]	10.00000	ug/L	<RL		
Cobalt	[0.3060]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[44.780]	100.0000	ug/L	<RL		
Lead	[0.7300]	3.000000	ug/L	<RL		
Magnesium	[14.190]	500.0000	ug/L	<RL		
Manganese	[0.8850]	10.00000	ug/L	<RL		
Molybdenum	[5.9000]	20.00000	ug/L	<RL		
Nickel	[0.3020]	20.00000	ug/L	<RL		
Selenium	[1.3900]	5.000000	ug/L	<RL		
Silver	[0.1720]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[2.7600]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367063
Filename: tr211557

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 12:22

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[6.6380]	100.0000	ug/L	<RL	
Antimony	[12.900]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1600]	10.00000	ug/L	<RL	
Beryllium	[0.9400]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0160]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[5.8410]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[5.1470]	500.0000	ug/L	<RL	
Manganese	[0.0970]	10.00000	ug/L	<RL	
Molybdenum	[6.8300]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.8620]	5.000000	ug/L	<RL	
Thallium	[3.0200]	5.000000	ug/L	<RL	
Titanium	[0.7650]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367075
Filename: tr211569

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 13:10

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[31.860]	100.0000	ug/L	<RL	
Antimony	[7.6500]	60.00000	ug/L	<RL	
Arsenic	[0.9910]	5.000000	ug/L	<RL	
Barium	[0.4240]	10.00000	ug/L	<RL	
Beryllium	[1.7300]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1760]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[10.440]	100.0000	ug/L	<RL	
Lead	[2.5800]	3.000000	ug/L	<RL	
Magnesium	[10.130]	500.0000	ug/L	<RL	
Manganese	[0.2360]	10.00000	ug/L	<RL	
Molybdenum	[9.2200]	20.00000	ug/L	<RL	
Nickel	[0.0380]	20.00000	ug/L	<RL	
Selenium	[0.9790]	5.000000	ug/L	<RL	
Silver	[0.1360]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.2100]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.6200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367087
Filename: tr211581

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 13:58

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[12.200]	100.0000	ug/L	<RL		
Antimony	[8.7100]	60.00000	ug/L	<RL		
Arsenic	[2.8000]	5.000000	ug/L	<RL		
Barium	[0.5360]	10.00000	ug/L	<RL		
Beryllium	[0.5400]	2.000000	ug/L	<RL		
Cadmium	[0.0890]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.1030]	10.00000	ug/L	<RL		
Cobalt	[0.2520]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[31.820]	100.0000	ug/L	<RL		
Lead	[1.3100]	3.000000	ug/L	<RL		
Magnesium	[14.130]	500.0000	ug/L	<RL		
Manganese	[0.6520]	10.00000	ug/L	<RL		
Molybdenum	[8.7300]	20.00000	ug/L	<RL		
Nickel	[0.1480]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.3420]	5.000000	ug/L	<RL		
Thallium	[1.0700]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.3360]	10.00000	ug/L	<RL		
Zinc	[2.8300]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367099
Filename: tr211593

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 14:53

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[20.650]	100.0000	ug/L	<RL	
Antimony	[29.800]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.3930]	10.00000	ug/L	<RL	
Beryllium	[1.3400]	2.000000	ug/L	<RL	
Cadmium	[0.0910]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2230]	10.00000	ug/L	<RL	
Cobalt	[0.4380]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[14.450]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[8.6250]	500.0000	ug/L	<RL	
Manganese	[0.3900]	10.00000	ug/L	<RL	
Molybdenum	[3.2200]	20.00000	ug/L	<RL	
Nickel	[0.3940]	20.00000	ug/L	<RL	
Selenium	[3.2700]	5.000000	ug/L	<RL	
Silver	[1.0100]	5.000000	ug/L	<RL	
Thallium	[3.5800]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.8800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367111
Filename: tr211605

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 15:38

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[48.970]	100.0000	ug/L	<RL	
Antimony	[17.200]	60.00000	ug/L	<RL	
Arsenic	[0.6360]	5.000000	ug/L	<RL	
Barium	[0.2770]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[147.00]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3800]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[22.700]	100.0000	ug/L	<RL	
Lead	[1.0900]	3.000000	ug/L	<RL	
Magnesium	[13.830]	500.0000	ug/L	<RL	
Manganese	[0.4340]	10.00000	ug/L	<RL	
Molybdenum	[7.7400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1320]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.7900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367122
Filename: tr211616

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 16:32

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[68.800]	100.0000	ug/L	<RL	
Antimony	[8.1500]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2790]	10.00000	ug/L	<RL	
Beryllium	[0.0080]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1940]	10.00000	ug/L	<RL	
Cobalt	[0.3720]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[8.6520]	100.0000	ug/L	<RL	
Lead	[1.8400]	3.000000	ug/L	<RL	
Magnesium	[7.9420]	500.0000	ug/L	<RL	
Manganese	[0.6870]	10.00000	ug/L	<RL	
Molybdenum	[2.9400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.8660]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[3.0100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367134
Filename: tr211628

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 17:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[91.580]	100.0000	ug/L	<RL	
Antimony	[7.6300]	60.00000	ug/L	<RL	
Arsenic	[0.8690]	5.000000	ug/L	<RL	
Barium	[0.3670]	10.00000	ug/L	<RL	
Beryllium	[0.0400]	2.000000	ug/L	<RL	
Cadmium	[0.4560]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.6080]	10.00000	ug/L	<RL	
Cobalt	[1.2700]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[20.750]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[10.960]	500.0000	ug/L	<RL	
Manganese	[0.2750]	10.00000	ug/L	<RL	
Molybdenum	[1.1700]	20.00000	ug/L	<RL	
Nickel	[0.1370]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[1.3300]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.7500]	10.00000	ug/L	<RL	
Zinc	[3.2300]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73301367143
Filename: tr211637

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 28-JUL-2003 17:55

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	116.0000	100.0000	ug/L	<RL	d	***
Antimony	[10.200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.4590]	10.00000	ug/L	<RL		
Beryllium	[0.7830]	2.000000	ug/L	<RL		
Cadmium	[0.3620]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0890]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[16.840]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[13.570]	500.0000	ug/L	<RL		
Manganese	[0.4170]	10.00000	ug/L	<RL		
Molybdenum	[7.5300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[3.8100]	5.000000	ug/L	<RL		
Silver	[0.3230]	5.000000	ug/L	<RL		
Thallium	5.720000	5.000000	ug/L	<RL	d	***
Titanium	[2.6100]	10.00000	ug/L	<RL		
Vanadium	[0.0040]	10.00000	ug/L	<RL		
Zinc	[3.7900]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367005

Run Name :
Filename : tr211499

Injected : 28-JUL-2003 08:22
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	524600.0	ug/L	5			
Antimony	500.0000	489.0000	ug/L	-2	20		
Arsenic	500.0000	532.0000	ug/L	6	20		
Barium	500.0000	500.0000	ug/L	0	20		
Beryllium	500.0000	490.0000	ug/L	-2	20		
Cadmium	1000.000	957.0000	ug/L	-4	20		
Calcium	500000.0	451700.0	ug/L	-10			
Chromium	500.0000	462.0000	ug/L	-8	20		
Cobalt	500.0000	467.0000	ug/L	-7	20		
Copper	500.0000	514.0000	ug/L	3	20		
Iron	200000.0	179000.0	ug/L	-11			
Lead	1000.000	909.0000	ug/L	-9	20		
Magnesium	500000.0	513300.0	ug/L	3			
Manganese	500.0000	470.0000	ug/L	-6	20		
Molybdenum	500.0000	444.0000	ug/L	-11	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	531.0000	ug/L	6	20		
Silver	1000.000	1020.000	ug/L	2	20		
Thallium	500.0000	460.0000	ug/L	-8	20		
Titanium	20000.00	2000.000	ug/L	-90			
Vanadium	500.0000	478.0000	ug/L	-4	20		
Zinc	1000.000	986.0000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73301367144

Run Name :
Filename : tr211638

Injected : 28-JUL-2003 17:59
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	476500.0	ug/L	-5			
Antimony	500.0000	525.0000	ug/L	5	20		
Arsenic	500.0000	546.0000	ug/L	9	20		
Barium	500.0000	518.0000	ug/L	4	20		
Beryllium	500.0000	485.0000	ug/L	-3	20		
Cadmium	1000.000	983.0000	ug/L	-2	20		
Calcium	500000.0	432800.0	ug/L	-13			
Chromium	500.0000	459.0000	ug/L	-8	20		
Cobalt	500.0000	464.0000	ug/L	-7	20		
Copper	500.0000	512.0000	ug/L	2	20		
Iron	200000.0	168000.0	ug/L	-16			
Lead	1000.000	872.0000	ug/L	-13	20		
Magnesium	500000.0	502800.0	ug/L	1			
Manganese	500.0000	451.0000	ug/L	-10	20		
Molybdenum	500.0000	471.0000	ug/L	-6	20		
Nickel	1000.000	1020.000	ug/L	2	20		
Selenium	500.0000	524.0000	ug/L	5	20		
Silver	1000.000	1000.000	ug/L	0	20		
Thallium	500.0000	471.0000	ug/L	-6	20		
Titanium	20000.00	2040.000	ug/L	-90			
Vanadium	500.0000	475.0000	ug/L	-5	20		
Zinc	1000.000	986.0000	ug/L	-1	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73301367 Instrument: MET07 TJA Trace ICP

Begun: 28-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	wt.	Std's Used	>LR
001	tr211495	CS				28-JUL-2003 06:47	1.0	1.0				1	
002	tr211496	ICV				28-JUL-2003 07:16	1.0	1.0				2	
003	tr211497	ICB				28-JUL-2003 07:24	1.0	1.0				3	
004	tr211498	CRI				28-JUL-2003 08:03	1.0	1.0				4	4:AL=524600
005	tr211499	ICSAB				28-JUL-2003 08:22	1.0	1.0					
006	tr211500	SAMPLE	166371-005	83149	Air	28-JUL-2003 08:27	1.0	600.2401	1				
007	tr211501	SAMPLE	166371-006	83149	Air	28-JUL-2003 08:31	1.0	600.2401	1				1:ZN=4310.00
008	tr211502	SAMPLE	166371-007	83149	Air	28-JUL-2003 08:35	1.0	600.2401					
009	tr211503	SAMPLE	166371-008	83149	Air	28-JUL-2003 08:39	1.0	600.2401					
010	tr211504	SAMPLE	166371-013	83149	Air	28-JUL-2003 08:43	1.0	600.2401	1				1:ZN=5430.00
011	tr211505	SAMPLE	166371-015	83149	Air	28-JUL-2003 08:47	1.0	600.2401	1				
012	tr211506	SAMPLE	166371-016	83149	Air	28-JUL-2003 08:51	1.0	600.2401	1				
013	tr211507	SAMPLE	166371-018	83149	Air	28-JUL-2003 08:55	1.0	600.2401	1				1:ZN=4660.00
014	tr211508	CCV				28-JUL-2003 09:01	1.0	1.0				5	
015	tr211509	CCB				28-JUL-2003 09:09	1.0	1.0					
016	tr211510	BLANK	QC220331	83187	Soil	28-JUL-2003 09:16	1.0	50.0					2
017	tr211511	BS	QC220332	83187	Soil	28-JUL-2003 09:20	1.0	50.0					2
018	tr211512	BSD	QC220333	83187	Soil	28-JUL-2003 09:26	1.0	50.0					
019	tr211513	MSS	166555-001	83187	Soil	28-JUL-2003 09:31	1.0	49.01961	3				3:FE=391800
020	tr211514	MS	QC220334	83187	Soil	28-JUL-2003 09:35	1.0	47.16981					3:FE=458100
021	tr211515	MSD	QC220335	83187	Soil	28-JUL-2003 09:38	1.0	45.66210	2				3:FE=456800
022	tr211516	SAMPLE	166555-002	83187	Soil	28-JUL-2003 09:42	1.0	43.66812	1				3:FE=422400
023	tr211517	SAMPLE	166555-003	83187	Soil	28-JUL-2003 09:45	1.0	46.29630					4:FE=438400
024	tr211518	SAMPLE	166555-004	83187	Soil	28-JUL-2003 09:50	1.0	46.51163					2:FE=291700
025	tr211519	SAMPLE	166371-019	83149	Air	28-JUL-2003 09:54	1.0	600.2401					
026	tr211520	CCV				28-JUL-2003 10:00	1.0	1.0				6	
027	tr211521	CCB				28-JUL-2003 10:03	1.0	1.0					3:FE=400300
028	tr211522	SAMPLE	166555-005	83187	Soil	28-JUL-2003 10:11	1.0	48.07692					3:FE=500300
029	tr211523	SAMPLE	166555-006	83187	Soil	28-JUL-2003 10:14	1.0	45.24887					4:FE=380000
030	tr211524	SAMPLE	166555-007	83187	Soil	28-JUL-2003 10:18	1.0	42.55319	2				2:FE=350700
031	tr211525	SAMPLE	166555-008	83187	Soil	28-JUL-2003 10:21	1.0	47.84689	1				4:FE=379700
032	tr211526	SAMPLE	166555-007	83187	Soil	28-JUL-2003 10:25	1.0	42.55319	1				

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75

Analyst: Neil Cb Date: 7/28/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73301367 Instrument: MET07 TJA Trace ICP

Begun: 28-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr211527	SAMPLE	166555-008	83187	Soil	28-JUL-2003	10:29 1.0	47.84689						2:FE=343600
034	tr211528	SAMPLE	166555-009	83187	Soil	28-JUL-2003	10:32 1.0	49.26108	1					3:FE=407500
035	tr211529	SAMPLE	166555-010	83187	Soil	28-JUL-2003	10:36 1.0	46.08295						3:FE=316400
036	tr211530	SAMPLE	166555-011	83187	Soil	28-JUL-2003	10:40 1.0	48.30918						3:FE=327700
037	tr211531	SAMPLE	166334-005	82945	WET le	28-JUL-2003	10:44 10.0	5.0						
038	tr211532	CCV				28-JUL-2003	10:49 1.0	1.0					5	
039	tr211533	CCB				28-JUL-2003	10:52 1.0	1.0						
040	tr211534	SAMPLE	166555-010	83187	Soil	28-JUL-2003	10:56 1.0	46.08295						3:FE=312400
041	tr211535	SAMPLE	166555-012	83187	Soil	28-JUL-2003	11:00 1.0	48.54369	3					5:FE=313300
042	tr211536	SAMPLE	166555-013	83187	Soil	28-JUL-2003	11:03 1.0	45.24887						3:FE=479400
043	tr211537	SAMPLE	166555-014	83187	Soil	28-JUL-2003	11:06 1.0	41.8410						3:FE=557000
044	tr211538	SAMPLE	166555-015	83187	Soil	28-JUL-2003	11:10 1.0	48.07692						3:FE=390300
045	tr211539	SAMPLE	166555-016	83187	Soil	28-JUL-2003	11:13 1.0	41.66667	1					2:FE=441500
046	tr211540	SAMPLE	166555-017	83187	Soil	28-JUL-2003	11:17 1.0	46.72897						3:FE=501700
047	tr211541	SAMPLE	166555-018	83187	Soil	28-JUL-2003	11:20 1.0	45.24887						3:FE=418100
048	tr211542	SAMPLE	166555-019	83187	Soil	28-JUL-2003	11:24 1.0	45.04505	1					3:FE=371500
049	tr211543	SAMPLE	166555-020	83187	Soil	28-JUL-2003	11:27 1.0	43.66812						2:FE=289200
050	tr211544	CCV				28-JUL-2003	11:32 1.0	1.0	1				6	
051	tr211545	CCB				28-JUL-2003	11:37 1.0	1.0						
052	tr211546	SAMPLE	166555-012	83187	Soil	28-JUL-2003	11:41 1.0	48.54369	3					5:FE=311000
053	tr211547	SAMPLE	166555-014	83187	Soil	28-JUL-2003	11:44 1.0	41.8410						3:FE=558400
054	tr211548	SAMPLE	166555-016	83187	Soil	28-JUL-2003	11:48 1.0	41.66667						2:FE=432900
055	tr211549	BLANK	QC220225	83167	Wipe	28-JUL-2003	11:53 1.0	50.0	1					
056	tr211550	BS	QC220226	83167	Wipe	28-JUL-2003	11:56 1.0	50.0	1					
057	tr211551	BSD	QC220227	83167	Wipe	28-JUL-2003	12:00 1.0	50.0	1					
058	tr211552	SAMPLE	166522-001	83167	Wipe	28-JUL-2003	12:04 1.0	50.0						
059	tr211553	SAMPLE	166522-002	83167	Wipe	28-JUL-2003	12:07 1.0	50.0						
060	tr211554	SAMPLE	166522-003	83167	Wipe	28-JUL-2003	12:11 1.0	50.0						
061	tr211555	SAMPLE	166524-001	83167	Wipe	28-JUL-2003	12:14 1.0	50.0						
062	tr211556	CCV				28-JUL-2003	12:18 1.0	1.0					5	
063	tr211557	CCB				28-JUL-2003	12:22 1.0	1.0						
064	tr211558	SAMPLE	166524-002	83167	Wipe	28-JUL-2003	12:27 1.0	50.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS74 8=03SSS75

Analyst: Mei Wu Date: 7/28/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73301367 Instrument: MET07 TJA Trace ICP

Begun: 28-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr211559	SAMPLE	166524-003	83167	Wipe	28-JUL-2003	12:31 1.0	50.0					
066	tr211560	SAMPLE	166525-001	83167	Wipe	28-JUL-2003	12:34 1.0	50.0					
067	tr211561	SAMPLE	166525-002	83167	Wipe	28-JUL-2003	12:37 1.0	50.0					
068	tr211562	SAMPLE	166525-003	83167	Wipe	28-JUL-2003	12:41 1.0	50.0					
069	tr211563	BLANK	QC220336	83188	Soil	28-JUL-2003	12:44 1.0	50.0					
070	tr211564	BS	QC220337	83188	Soil	28-JUL-2003	12:48 1.0	50.0					
071	tr211565	BSD	QC220338	83188	Soil	28-JUL-2003	12:52 1.0	50.0					
072	tr211566	MSS	166550-001	83188	Soil	28-JUL-2003	12:55 1.0	42.19409	3				2:FE=158500
073	tr211567	SER	QC220341	83188	Soil	28-JUL-2003	13:00 5.0	42.19409					
074	tr211568	CCV				28-JUL-2003	13:06 1.0	1.0					
075	tr211569	CCB				28-JUL-2003	13:10 1.0	1.0					
076	tr211570	SER	QC220341	83188	Soil	28-JUL-2003	13:13 5.0	42.19409	2				2:FE=157000
077	tr211571	MSS	166550-001	83188	Soil	28-JUL-2003	13:20 1.0	42.19409	2				2:FE=217200
078	tr211572	MS	QC220339	83188	Soil	28-JUL-2003	13:23 1.0	40.98361		2			2:FE=244100
079	tr211573	MSD	QC220340	83188	Soil	28-JUL-2003	13:27 1.0	42.73504		3			1:FE=119200
080	tr211574	SAMPLE	166550-002	83188	Soil	28-JUL-2003	13:30 1.0	42.91845	2				4:FE=482800
081	tr211575	SAMPLE	166555-021	83188	Soil	28-JUL-2003	13:34 1.0	44.05286	1				2:FE=363600
082	tr211576	SAMPLE	166555-022	83188	Soil	28-JUL-2003	13:37 1.0	44.64286					3:FE=499300
083	tr211577	SAMPLE	166555-023	83188	Soil	28-JUL-2003	13:41 1.0	46.72897					3:FE=456100
084	tr211578	SAMPLE	166555-024	83188	Soil	28-JUL-2003	13:44 1.0	44.84305					
085	tr211579	SAMPLE	166555-021	83188	Soil	28-JUL-2003	13:48 10.0	44.05286					
086	tr211580	CCV				28-JUL-2003	13:54 1.0	1.0					
087	tr211581	CCB				28-JUL-2003	13:58 1.0	1.0					
088	tr211582	BLANK	QC220174	83155	Soil	28-JUL-2003	14:01 1.0	50.0					
089	tr211583	BS	QC220175	83155	Soil	28-JUL-2003	14:06 1.0	50.0					
090	tr211584	BSD	QC220176	83155	Soil	28-JUL-2003	14:10 1.0	50.0					
091	tr211585	MSS	166520-001	83155	Soil	28-JUL-2003	14:14 1.0	44.05286	4				4:FE=621800
092	tr211586	MS	QC220177	83155	Soil	28-JUL-2003	14:17 1.0	46.72897		4			4:FE=567500
093	tr211587	MS	QC220177	83155	Soil	28-JUL-2003	14:21 1.0	46.72897		2			5:FE=526400
094	tr211588	SAMPLE	166520-002	83155	Soil	28-JUL-2003	14:24 1.0	48.78049					3:FE=507900
095	tr211589	SAMPLE	166523-001	83155	Miscel	28-JUL-2003	14:28 1.0	27027.03					
096	tr211590	SAMPLE	166515-001	83155	Miscel	28-JUL-2003	14:31 1.0	49.50495					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS74 8=03SSS75

Analyst: Ma' W Date: 7/28/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73301367 Instrument: MET07 TJA Trace ICP

Begun: 28-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's	Used	>LR
097	tr211591	PDS	QC220465	83155	Soil	28-JUL-2003 14:35	1.0	44.05286				7	8	5:FE=630000
098	tr211592	CCV				28-JUL-2003 14:42	1.0	1.0				16		
099	tr211593	CCB				28-JUL-2003 14:53	1.0	1.0						
100	tr211594	MSS	166520-001	83155	Soil	28-JUL-2003 14:57	10.0	44.05286	1					
101	tr211595	MSD	QC220178	83155	Soil	28-JUL-2003 15:00	1.0	47.39336	1	3				5:FE=504200
102	tr211596	SAMPLE	166519-001	83155	Miscel	28-JUL-2003 15:04	50.0	49.26108	1					1:CU=66900.0
103	tr211597	SAMPLE	166519-001	83155	Miscel	28-JUL-2003 15:08	500.0	49.26108						
104	tr211598	SAMPLE	166520-002	83155	Soil	28-JUL-2003 15:11	1.0	48.78049						3:FE=475100
105	tr211599	SAMPLE	166518-001	83155	Miscel	28-JUL-2003 15:14	1.0	45.87156						3:CA=220800
106	tr211600	SAMPLE	166534-001	83155	Soil	28-JUL-2003 15:18	1.0	44.05286	5					4:FE=567800
107	tr211601	MSS	166514-001	83155	Soil	28-JUL-2003 15:21	1.0	50.0	3					3:CA=2436000
108	tr211602	MSS	166514-001	83155	Soil	28-JUL-2003 15:26	1.0	50.0	3					3:CA=2517000
109	tr211603	SER	QC220179	83155	Soil	28-JUL-2003 15:29	5.0	50.0		1				1:CA=757700
110	tr211604	CCV				28-JUL-2003 15:34	1.0	1.0				5		
111	tr211605	CCB				28-JUL-2003 15:38	1.0	1.0						
112	tr211606	SAMPLE	166534-001	83155	Soil	28-JUL-2003 15:44	1.0	44.05286	5					4:FE=540600
113	tr211607	SAMPLE	166514-002	83155	Soil	28-JUL-2003 15:48	1.0	40.32258						3:CA=2969000
114	tr211608	SAMPLE	166502-001	83155	Soil	28-JUL-2003 15:51	1.0	48.54369	1					3:FE=414000
115	tr211609	SAMPLE	166502-001	83155	Soil	28-JUL-2003 15:58	1.0	48.54369						3:FE=423200
116	tr211610	SAMPLE	166517-001	83155	Miscel	28-JUL-2003 16:02	10.0	43.10345	1					1:CU=131000
117	tr211611	SAMPLE	166517-001	83155	Miscel	28-JUL-2003 16:07	10.0	43.10345	1					1:CU=130000
118	tr211612	SAMPLE	166517-001	83155	Miscel	28-JUL-2003 16:10	500.0	43.10345	3					
119	tr211613	SAMPLE	166555-002	83187	Soil	28-JUL-2003 16:14	1.0	43.66812						3:FE=382700
120	tr211614	SAMPLE	166555-003	83187	Soil	28-JUL-2003 16:17	1.0	46.29630						4:FE=408200
121	tr211615	CCV				28-JUL-2003 16:22	1.0	1.0				6		
122	tr211616	CCB				28-JUL-2003 16:32	1.0	1.0						
123	tr211617	BLANK	QC220451	83216	Soil	28-JUL-2003 16:36	1.0	50.0	1					
124	tr211618	BS	QC220452	83216	Soil	28-JUL-2003 16:39	1.0	50.0	1					
125	tr211619	BSD	QC220453	83216	Soil	28-JUL-2003 16:43	1.0	50.0	1					
126	tr211620	MSS	166562-001	83216	Soil	28-JUL-2003 16:46	1.0	46.51163	1					
127	tr211621	SER	QC220456	83216	Soil	28-JUL-2003 16:50	5.0	46.51163						
128	tr211622	MS	QC220454	83216	Soil	28-JUL-2003 16:53	1.0	46.51163	1					1:AL=105700

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75

Analyst: McV Date: 7/28/03
Page 4 of 5

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73301367 Instrument: MET07 TJA Trace ICP Begun: 28-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Std's	Used
129	tr211623	MSD	QC220455	83216	Soil	28-JUL-2003	16:57 1.0	38.91051	1			1:AL=123900	>LR
130	tr211624	SAMPLE	166562-002	83216	Soil	28-JUL-2003	17:00 1.0	39.06250					
131	tr211625	SAMPLE	166562-003	83216	Soil	28-JUL-2003	17:04 1.0	47.39336	1			3:FE=232500	
132	tr211626	SAMPLE	166562-003	83216	Soil	28-JUL-2003	17:08 20.0	47.39336					
133	tr211627	CCV				28-JUL-2003	17:11 1.0	1.0	1			5	
134	tr211628	CCB				28-JUL-2003	17:20 1.0	1.0					
135	tr211629	SAMPLE	166562-004	83216	Soil	28-JUL-2003	17:23 1.0	44.64286					
136	tr211630	SAMPLE	166562-005	83216	Soil	28-JUL-2003	17:27 1.0	45.04505	1			3:FE=226300	
137	tr211631	SAMPLE	166562-006	83216	Soil	28-JUL-2003	17:30 1.0	45.24887					
138	tr211632	SAMPLE	166562-007	83216	Soil	28-JUL-2003	17:34 1.0	43.85965	1				
139	tr211633	SAMPLE	166562-008	83216	Soil	28-JUL-2003	17:37 1.0	42.55319					
140	tr211634	SAMPLE	166562-007	83216	Soil	28-JUL-2003	17:41 1.0	43.85965					
141	tr211635	SAMPLE	166562-005	83216	Soil	28-JUL-2003	17:45 10.0	45.04505					
142	tr211636	CCV				28-JUL-2003	17:51 1.0	1.0	2			6	
143	tr211637	CCB				28-JUL-2003	17:55 1.0	1.0					
144	tr211638	ICSAB				28-JUL-2003	17:59 1.0	1.0				4	4:MG=502800

Std's used: 1=03WSI109 2=03WSI149 3=03WS0897 4=03WSI089 5=03WSI150 6=03WSI151 7=03SS74 8=03SS75

Analyst: Mei Wu Date: 7/28/03

Method: 6010B Standard: blank

Run Time: 07/29/03 06:57:40

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	.001	-.094	.001	.000
SDev	.000	.000	.000	.000	.001	.000	.000
%RSD	6.72	43.5	83.6	12.9	.915	29.4	55.3
#1	-.001	.000	-.001	.001	-.094	.001	.000
#2	-.001	.001	-.000	.001	-.093	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.000	-.000	.000	-.000	-.001
SDev	.000	.000	.001	.000	.000	.000	.000
%RSD	17.0	17.4	153.	236.	38.6	538.	5.30
#1	-.000	-.002	.001	.000	.000	-.000	-.002
#2	-.000	-.002	-.000	-.000	.000	.000	-.001
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.002	-.000	.000	.004	.0254	-.0057
SDev	.000	.000	.000	.000	.000	.0000	.0001
%RSD	9.42	1.33	141.	28.3	1.17	.1267	1.354
#1	.001	.002	-.000	.000	.004	.0255	-.0057
#2	.001	.002	.000	.000	.004	.0254	-.0056
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.050			
SDev	.0003	.0001	.000	.001			
%RSD	42.42	184.9	101.	1.32			
#1	-.0008	-.0000	.000	.050			
#2	-.0004	.0001	.000	.051			

Method: 6010B Standard: cst hi

Run Time: 07/29/03 07:04:17

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.171	.105	.037	5.44	.636	.209	.050
SDev	.004	.001	.001	.00	.004	.001	.000
%RSD	2.33	1.38	1.38	.059	.704	.627	.478
#1	.168	.104	.036	5.43	.633	.208	.050
#2	.174	.106	.037	5.44	.639	.210	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.136	.132	.147	.149	.264	.344	.039
SDev	.001	.000	.001	.001	.001	.001	.001
%RSD	.551	.102	.433	.801	.458	.281	1.73
#1	.136	.132	.147	.148	.263	.344	.039
#2	.137	.131	.147	.150	.265	.345	.040
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.048	.079	.026	.206	.030	.0538	.0652
SDev	.001	.000	.000	.000	.000	.0001	.0005
%RSD	1.07	.120	.985	.164	.534	.1463	.7477
#1	.048	.079	.025	.206	.030	.0537	.0649
#2	.048	.079	.026	.206	.030	.0538	.0656
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0257	.0382	.223	1.96			
SDev	.0004	.0002	.001	.01			
%RSD	1.413	.4885	.561	.317			
#1	.0255	.0381	.222	1.96			
#2	.0260	.0384	.223	1.97			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	5784.34	4.85124	07/29/03 07:04:17
Sb206A	206.832	Multiple	Standards	9411.56	-3.66487	07/29/03 07:04:17
As1890	189.042	Multiple	Standards	13462.2	5.91381	07/29/03 07:04:17
Ba4934	493.409	Multiple	Standards	184.020	-.212213	07/29/03 07:04:17
Be3130	313.042	Multiple	Standards	132.373	12.4018	07/29/03 07:04:17
Cd2265	226.502	Multiple	Standards	479.405	-.471467	07/29/03 07:04:17
Cr2677	267.716	Multiple	Standards	3999.74	-.459267	07/29/03 07:04:17
Co2286	228.616	Multiple	Standards	3663.85	.914541	07/29/03 07:04:17
Cu3247	324.754	Multiple	Standards	1496.77	3.05733	07/29/03 07:04:17
Pb2203	220.351	Multiple	Standards	3413.06	-1.70371	07/29/03 07:04:17
Pb220A	220.352	Multiple	Standards	3329.38	.099739	07/29/03 07:04:17
Mo2020	202.030	Multiple	Standards	3789.72	-1.24868	07/29/03 07:04:17
Ni2316	231.604	Multiple	Standards	1449.39	.072333	07/29/03 07:04:17
Se1960	196.021	Multiple	Standards	12346.2	18.0589	07/29/03 07:04:17
Se196A	196.022	Multiple	Standards	10658.0	-12.7696	07/29/03 07:04:17
Ag3280	328.068	Multiple	Standards	1308.50	-2.80888	07/29/03 07:04:17
Tl1908	190.864	Multiple	Standards	19447.2	4.46548	07/29/03 07:04:17
V_2924	292.402	Multiple	Standards	2426.43	-.484520	07/29/03 07:04:17
Zn2138	213.856	Multiple	Standards	4015.54	-17.1396	07/29/03 07:04:17
Al3082	308.215	Multiple	Standards	35756.8	-909.837	07/29/03 07:04:17
Ca3179	317.933	Multiple	Standards	28206.9	160.387	07/29/03 07:04:17
Fe2714	271.441	Multiple	Standards	39578.2	23.7092	07/29/03 07:04:17
Mg2790	279.079	Multiple	Standards	52386.9	-3.40020	07/29/03 07:04:17
Mn2576	257.610	Multiple	Standards	449.899	-.110060	07/29/03 07:04:17
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/29/03 07:04:17
Ti3349	334.941	Multiple	Standards	522.418	-26.3226	07/29/03 07:04:17

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834001

Run Name :
Filename : tr211641

Injected : 29-JUL-2003 07:14
Caltype :

Standards: Q3WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	960.9000	ug/L	-4	5	
Antimony	1000.000	996.0000	ug/L	0	5	
Arsenic	500.0000	493.0000	ug/L	-1	5	
Barium	1000.000	972.0000	ug/L	-3	5	
Beryllium	100.0000	98.40000	ug/L	-2	5	
Cadmium	100.0000	98.00000	ug/L	-2	5	
Calcium	2000.000	1984.000	ug/L	-1	5	
Chromium	200.0000	195.0000	ug/L	-3	5	
Cobalt	500.0000	491.0000	ug/L	-2	5	
Copper	200.0000	196.0000	ug/L	-2	5	
Iron	1000.000	971.6000	ug/L	-3	5	
Lead	500.0000	491.0000	ug/L	-2	5	
Magnesium	2000.000	1957.000	ug/L	-2	5	
Manganese	100.0000	98.20000	ug/L	-2	5	
Molybdenum	1000.000	983.0000	ug/L	-2	5	
Nickel	500.0000	491.0000	ug/L	-2	5	
Selenium	500.0000	491.0000	ug/L	-2	5	
Silver	100.0000	99.10000	ug/L	-1	5	
Thallium	500.0000	490.0000	ug/L	-2	5	
Titanium	1000.000	978.0000	ug/L	-2	5	
Vanadium	500.0000	490.0000	ug/L	-2	5	
Zinc	100.0000	97.50000	ug/L	-3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834002

Run Name :
Filename : tr211642

Injected : 29-JUL-2003 07:22
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	460.1000	ug/L	-8	10	
Antimony	500.0000	464.0000	ug/L	-7	10	
Arsenic	250.0000	252.0000	ug/L	1	10	
Barium	500.0000	479.0000	ug/L	-4	10	
Beryllium	50.00000	50.50000	ug/L	1	10	
Cadmium	50.00000	48.40000	ug/L	-3	10	
Calcium	1000.000	1011.000	ug/L	1	10	
Chromium	100.0000	99.50000	ug/L	-1	10	
Cobalt	250.0000	246.0000	ug/L	-2	10	
Copper	100.0000	100.0000	ug/L	0	10	
Iron	500.0000	486.5000	ug/L	-3	10	
Lead	250.0000	235.0000	ug/L	-6	10	
Magnesium	1000.000	1001.000	ug/L	0	10	
Manganese	50.00000	48.90000	ug/L	-2	10	
Molybdenum	500.0000	484.0000	ug/L	-3	10	
Nickel	250.0000	250.0000	ug/L	0	10	
Selenium	250.0000	237.0000	ug/L	-5	10	
Silver	50.00000	48.80000	ug/L	-2	10	
Thallium	250.0000	236.0000	ug/L	-6	10	
Titanium	500.0000	500.0000	ug/L	0	10	
Vanadium	250.0000	245.0000	ug/L	-2	10	
Zinc	50.00000	49.20000	ug/L	-2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834004

Run Name :
Filename : tr211644

Injected : 29-JUL-2003 07:31
Caltpe :

Standards: Q3WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	105.4000	ug/L	5	50	
Antimony	60.00000	63.80000	ug/L	6	50	
Arsenic	5.000000	6.090000	ug/L	22	50	
Barium	10.00000	9.670000	ug/L	-3	50	
Beryllium	2.000000	1.390000	ug/L	-31	50	
Cadmium	5.000000	4.900000	ug/L	-2	50	
Chromium	10.00000	9.400000	ug/L	-6	50	
Cobalt	20.00000	19.30000	ug/L	-4	50	
Copper	10.00000	10.40000	ug/L	4	50	
Iron	100.0000	99.74000	ug/L	0	50	
Lead	3.000000	2.220000	ug/L	-26	50	
Manganese	10.00000	9.760000	ug/L	-2	50	
Molybdenum	20.00000	20.10000	ug/L	1	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	4.410000	ug/L	-12	50	
Silver	5.000000	5.440000	ug/L	9	50	
Thallium	5.000000	5.640000	ug/L	13	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	19.60000	ug/L	-2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834014

Run Name :
Filename : tr211654

Injected : 29-JUL-2003 08:26
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	464.5000	ug/L	-7	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	486.0000	ug/L	-3	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	48.20000	ug/L	-4	10	
Calcium		1000.000	1007.000	ug/L	1	10	
Chromium		100.0000	98.90000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	507.0000	ug/L	1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1002.000	ug/L	0	10	
Manganese		50.00000	48.70000	ug/L	-3	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	236.0000	ug/L	-6	10	
Silver		50.00000	50.60000	ug/L	1	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.40000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834026

Run Name :
Filename : tr211666

Injected : 29-JUL-2003 09:28
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	687.3000	ug/L	-8		10	
Antimony		750.0000	746.0000	ug/L	-1		10	
Arsenic		375.0000	374.0000	ug/L	0		10	
Barium		750.0000	715.0000	ug/L	-5		10	
Beryllium		75.00000	74.80000	ug/L	0		10	
Cadmium		75.00000	70.40000	ug/L	-6		10	
Calcium		1500.000	1513.000	ug/L	1		10	
Chromium		150.0000	147.0000	ug/L	-2		10	
Cobalt		375.0000	363.0000	ug/L	-3		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	741.2000	ug/L	-1		10	
Lead		375.0000	363.0000	ug/L	-3		10	
Magnesium		1500.000	1485.000	ug/L	-1		10	
Manganese		75.00000	72.00000	ug/L	-4		10	
Molybdenum		750.0000	734.0000	ug/L	-2		10	
Nickel		375.0000	366.0000	ug/L	-2		10	
Selenium		375.0000	361.0000	ug/L	-4		10	
Silver		75.00000	74.70000	ug/L	0		10	
Thallium		375.0000	348.0000	ug/L	-7		10	
Titanium		750.0000	736.0000	ug/L	-2		10	
Vanadium		375.0000	362.0000	ug/L	-3		10	
Zinc		75.00000	71.80000	ug/L	-4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834038

Run Name :
Filename : tr211678

Injected : 29-JUL-2003 10:23
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	777.5000	ug/L	4	10	
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	725.0000	ug/L	-3	10	
Beryllium		75.00000	75.70000	ug/L	1	10	
Cadmium		75.00000	71.30000	ug/L	-5	10	
Calcium		1500.000	1545.000	ug/L	3	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	778.9000	ug/L	4	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1552.000	ug/L	3	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	75.50000	ug/L	1	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.40000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834003
Filename: tr211643

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 29-JUL-2003 07:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.1500]		60.00000	ug/L	<	RL
Arsenic	[1.6700]		5.000000	ug/L	<	RL
Barium	[0.0850]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[16.690]		500.0000	ug/L	<	RL
Chromium	[0.0540]		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.2770]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.6980]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[5.8500]		20.00000	ug/L	<	RL
Nickel	[0.0810]		20.00000	ug/L	<	RL
Selenium	[1.9500]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.3900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834015
Filename: tr211655

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 08:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[1.1700]	5.000000	ug/L	<RL		
Barium	[0.0110]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[52.370]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4940]	10.00000	ug/L	<RL		
Copper	[1.8500]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[1.1800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.6000]	5.000000	ug/L	<RL		
Titanium	[1.2300]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834027
Filename: tr211667

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 09:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[1.1000]	60.00000	ug/L	<RL		
Arsenic	[2.0800]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[67.300]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[1.9500]	10.00000	ug/L	<RL		
Iron	[10.260]	100.0000	ug/L	<RL		
Lead	[0.0180]	3.000000	ug/L	<RL		
Magnesium	[8.7480]	500.0000	ug/L	<RL		
Manganese	[0.1340]	10.00000	ug/L	<RL		
Molybdenum	[3.3900]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[3.9200]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.0300]	5.000000	ug/L	<RL		
Titanium	[1.9700]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73302834039
Filename: tr211679

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 29-JUL-2003 10:28

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[5.9600]	60.00000	ug/L	<RL	
Arsenic	[3.3000]	5.000000	ug/L	<RL	
Barium	[0.1710]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[67.790]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.8310]	10.00000	ug/L	<RL	
Copper	[2.1700]	10.00000	ug/L	<RL	
Iron	[9.9950]	100.0000	ug/L	<RL	
Lead	[1.1100]	3.000000	ug/L	<RL	
Magnesium	[18.700]	500.0000	ug/L	<RL	
Manganese	[0.0360]	10.00000	ug/L	<RL	
Molybdenum	[8.3300]	20.00000	ug/L	<RL	
Nickel	[0.4080]	20.00000	ug/L	<RL	
Selenium	[1.5200]	5.000000	ug/L	<RL	
Silver	[0.7910]	5.000000	ug/L	<RL	
Thallium	[4.3300]	5.000000	ug/L	<RL	
Titanium	[2.2300]	10.00000	ug/L	<RL	
Vanadium	[0.0090]	10.00000	ug/L	<RL	
Zinc	[0.1180]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834005

Run Name :
Filename : tr211645

Injected : 29-JUL-2003 07:39
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	500800.0	ug/L	0		
Antimony	500.0000	444.0000	ug/L	-11	20	
Arsenic	500.0000	538.0000	ug/L	8	20	
Barium	500.0000	485.0000	ug/L	-3	20	
Beryllium	500.0000	504.0000	ug/L	1	20	
Cadmium	1000.000	947.0000	ug/L	-5	20	
Calcium	500000.0	463700.0	ug/L	-7		
Chromium	500.0000	468.0000	ug/L	-6	20	
Cobalt	500.0000	473.0000	ug/L	-5	20	
Copper	500.0000	518.0000	ug/L	4	20	
Iron	200000.0	181900.0	ug/L	-9		
Lead	1000.000	833.0000	ug/L	-17	20	
Magnesium	500000.0	514000.0	ug/L	3		
Manganese	500.0000	482.0000	ug/L	-4	20	
Molybdenum	500.0000	452.0000	ug/L	-10	20	
Nickel	1000.000	1020.000	ug/L	2	20	
Selenium	500.0000	481.0000	ug/L	-4	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	466.0000	ug/L	-7	20	
Titanium	20000.00	2020.000	ug/L	-90		
Vanadium	500.0000	485.0000	ug/L	-3	20	
Zinc	1000.000	995.0000	ug/L	-1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73302834037

Run Name :
Filename : tr211677

Injected : 29-JUL-2003 10:16
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	539500.0	ug/L	8			
Antimony	500.0000	449.0000	ug/L	-10	20		
Arsenic	500.0000	538.0000	ug/L	8	20		
Barium	500.0000	497.0000	ug/L	-1	20		
Beryllium	500.0000	508.0000	ug/L	2	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	444100.0	ug/L	-11			
Chromium	500.0000	479.0000	ug/L	-4	20		
Cobalt	500.0000	476.0000	ug/L	-5	20		
Copper	500.0000	523.0000	ug/L	5	20		
Iron	200000.0	186400.0	ug/L	-7			
Lead	1000.000	850.0000	ug/L	-15	20		
Magnesium	500000.0	521500.0	ug/L	4			
Manganese	500.0000	478.0000	ug/L	-4	20		
Molybdenum	500.0000	465.0000	ug/L	-7	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	502.0000	ug/L	0	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	461.0000	ug/L	-8	20		
Titanium	20000.00	2030.000	ug/L	-90			
Vanadium	500.0000	488.0000	ug/L	-2	20		
Zinc	1000.000	1010.000	ug/L	1	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73302834 Instrument: MET07 TJA Trace ICP

Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211641	CS				29-JUL-2003 07:14	1.0	1.0				1	
002	tr211642	ICV				29-JUL-2003 07:22	1.0	1.0				2	
003	tr211643	ICB				29-JUL-2003 07:26	1.0	1.0				3	
004	tr211644	CRI				29-JUL-2003 07:31	1.0	1.0				4	4:MG=514000
005	tr211645	ICSNAB				29-JUL-2003 07:39	1.0	1.0					
006	tr211646	SAMPLE	166556-001	83188	Miscel	29-JUL-2003 07:45	1.0	48.54369					
007	tr211647	SAMPLE	166556-002	83188	Miscel	29-JUL-2003 07:49	1.0	46.51163					
008	tr211648	SAMPLE	166556-003	83188	Miscel	29-JUL-2003 07:53	1.0	45.24887					
009	tr211649	SAMPLE	166550-002	83188	Soil	29-JUL-2003 07:57	1.0	42.91845					1:FE=125500
010	tr211650	SAMPLE	166561-014	83188	Soil	29-JUL-2003 08:01	1.0	44.05286	1				1:FE=164600
011	tr211651	SAMPLE	166561-029	83188	Soil	29-JUL-2003 08:05	1.0	42.55319	2				1:FE=198400
012	tr211652	SAMPLE	166561-030	83188	Soil	29-JUL-2003 08:09	1.0	48.54369	1				1:FE=170300
013	tr211653	SAMPLE	166561-029	83188	Soil	29-JUL-2003 08:13	1.0	42.55319	3				1:FE=197100
014	tr211654	CCV				29-JUL-2003 08:26	1.0	1.0				5	
015	tr211655	CCB				29-JUL-2003 08:38	1.0	1.0					
016	tr211656	SAMPLE	166561-042	83188	Soil	29-JUL-2003 08:42	1.0	45.24887	2				2:FE=183400
017	tr211657	SAMPLE	166551-003	83188	Soil	29-JUL-2003 08:46	1.0	40.32258					4:FE=587000
018	tr211658	SAMPLE	166551-006	83188	Soil	29-JUL-2003 08:50	1.0	43.66812					4:FE=566500
019	tr211659	SAMPLE	166551-009	83188	Soil	29-JUL-2003 08:54	1.0	44.24779					5:FE=531300
020	tr211660	SAMPLE	166561-014	83188	Soil	29-JUL-2003 09:00	1.0	44.05286	1				
021	tr211661	SAMPLE	166561-029	83188	Soil	29-JUL-2003 09:03	1.0	42.55319					
022	tr211662	SAMPLE	166561-030	83188	Soil	29-JUL-2003 09:07	1.0	48.54369	1				
023	tr211663	SAMPLE	166561-042	83188	Soil	29-JUL-2003 09:11	1.0	45.24887	3				
024	tr211664	SAMPLE	166478-002	83128	Water	29-JUL-2003 09:16	1.0	1.0	1				
025	tr211665	SAMPLE	166478-003	83128	Water	29-JUL-2003 09:19	1.0	1.0	1				1:CA=263000
026	tr211666	CCV				29-JUL-2003 09:28	1.0	1.0				6	
027	tr211667	CCB				29-JUL-2003 09:33	1.0	1.0					
028	tr211668	SAMPLE	166478-002	83128	Water	29-JUL-2003 09:37	1.0	1.0					
029	tr211669	SAMPLE	166478-003	83128	Water	29-JUL-2003 09:41	1.0	1.0					1:CA=263200
030	tr211670	SAMPLE	166478-004	83128	Water	29-JUL-2003 09:45	1.0	1.0					
031	tr211671	SAMPLE	166478-005	83128	Water	29-JUL-2003 09:49	1.0	1.0					
032	tr211672	SAMPLE	166478-006	83128	Water	29-JUL-2003 09:53	1.0	1.0	1				2:CA=951900

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS74 8=03SSS75

Analyst: Ala'W Date: 7/9/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73302834 Instrument: MET07 TJA Trace ICP

Begun: 29-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
033	tr211673	PDS	QC220466	83188	Soil	29-JUL-2003 09:58	1.0	42.19409				7 8	2:FE=183700
034	tr211674	SAMPLE	166478-006	83128	Water	29-JUL-2003 10:01	1.0	1.0	1				2:CA=958200
035	tr211675	MSS	166550-001	83188	Soil	29-JUL-2003 10:05	10.0	42.19409					
036	tr211676	SER	QC220341	83188	Soil	29-JUL-2003 10:09	50.0	42.19409					
037	tr211677	ICSAB				29-JUL-2003 10:16	1.0	1.0				4	4:AL=539500
038	tr211678	CCV				29-JUL-2003 10:23	1.0	1.0				6	
039	tr211679	CCB				29-JUL-2003 10:28	1.0	1.0					
040	tr211680	BLANK	QC220325	83186	Soil	29-JUL-2003 10:36	1.0	50.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS74 8=03SS75

Analyst: Mei Wu Date: 7/29/03

Method: 6010B Standard: blank
Run Time: 07/30/03 07:12:39

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.001	-.090	.001	.000
SDev	.000	.001	.000	.000	.001	.000	.000
%RSD	4.13	93.6	362.	37.3	1.18	31.8	9.96
#1	-.001	.001	-.000	.000	-.089	.001	.000
#2	-.001	.000	.000	.001	-.090	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.003	.001	.000	.000	.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	92.6	5.31	51.5	239.	14.2	47.2	6.28
#1	-.000	-.003	.000	-.000	.000	.000	-.002
#2	-.000	-.003	.001	.001	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.005	.0272	-.0066
SDev	.000	.000	.000	.000	.000	.0002	.0000
%RSD	17.3	189.	91.7	73.6	.581	.7192	.2572
#1	.001	.000	-.001	.000	.005	.0271	-.0066
#2	.001	-.000	-.000	.000	.005	.0274	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0000	.000	.058			
SDev	.0000	.0000	.000	.000			
%RSD	4.700	35.44	.094	.052			
#1	-.0007	.0000	.000	.058			
#2	-.0006	.0001	.000	.058			

Method: 6010B Standard: cst hi
Run Time: 07/30/03 07:18:23

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.094	.037	5.34	.637	.215	.050
SDev	.007	.004	.000	.01	.001	.001	.000
%RSD	4.96	4.29	.422	.196	.175	.220	.058
#1	.145	.091	.037	5.35	.637	.215	.050
#2	.155	.097	.037	5.34	.636	.214	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.138	.128	.151	.150	.262	.350	.039
SDev	.000	.001	.000	.001	.001	.000	.001
%RSD	.168	.474	.125	.321	.480	.011	2.33
#1	.138	.129	.151	.150	.261	.350	.039
#2	.138	.128	.151	.150	.263	.350	.040
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.048	.078	.026	.205	.031	.0556	.0639
SDev	.001	.000	.001	.000	.000	.0002	.0001
%RSD	2.02	.340	2.59	.132	.058	.4210	.0753
#1	.049	.078	.025	.205	.031	.0557	.0639
#2	.047	.078	.026	.205	.031	.0554	.0639
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0256	.0387	.223	1.95			
SDev	.0001	.0001	.000	.00			
%RSD	.2434	.3114	.102	.026			
#1	.0257	.0388	.223	1.95			
#2	.0256	.0386	.222	1.95			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6592.54	5.05393	07/30/03 07:18:23
Sb206A	206.832	Multiple	Standards	10503.1	-8.85296	07/30/03 07:18:23
As1890	189.042	Multiple	Standards	13430.1	1.32147	07/30/03 07:18:23
Ba4934	493.409	Multiple	Standards	187.197	-.097395	07/30/03 07:18:23
Be3130	313.042	Multiple	Standards	133.019	11.9294	07/30/03 07:18:23
Cd2265	226.502	Multiple	Standards	467.049	-.317073	07/30/03 07:18:23
Cr2677	267.716	Multiple	Standards	3987.61	-.938947	07/30/03 07:18:23
Co2286	228.616	Multiple	Standards	3619.59	.574526	07/30/03 07:18:23
Cu3247	324.754	Multiple	Standards	1526.99	3.98917	07/30/03 07:18:23
Pb2203	220.351	Multiple	Standards	3328.36	-2.00525	07/30/03 07:18:23
Pb220A	220.352	Multiple	Standards	3312.66	-.889815	07/30/03 07:18:23
Mo2020	202.030	Multiple	Standards	3816.88	-1.25409	07/30/03 07:18:23
Ni2316	231.604	Multiple	Standards	1426.89	-.164114	07/30/03 07:18:23
Se1960	196.021	Multiple	Standards	12182.5	19.8127	07/30/03 07:18:23
Se196A	196.022	Multiple	Standards	10647.7	-12.3594	07/30/03 07:18:23
Ag3280	328.068	Multiple	Standards	1277.74	-.041942	07/30/03 07:18:23
Tl1908	190.864	Multiple	Standards	19169.6	7.76424	07/30/03 07:18:23
V_2924	292.402	Multiple	Standards	2437.37	-.333773	07/30/03 07:18:23
Zn2138	213.856	Multiple	Standards	3949.56	-18.8368	07/30/03 07:18:23
Al3082	308.215	Multiple	Standards	35764.8	-974.098	07/30/03 07:18:23
Ca3179	317.933	Multiple	Standards	28356.5	187.723	07/30/03 07:18:23
Fe2714	271.441	Multiple	Standards	39705.4	25.6544	07/30/03 07:18:23
Mg2790	279.079	Multiple	Standards	51700.0	-2.26513	07/30/03 07:18:23
Mn2576	257.610	Multiple	Standards	449.880	-.098536	07/30/03 07:18:23
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/30/03 07:18:23
Ti3349	334.941	Multiple	Standards	527.417	-30.8119	07/30/03 07:18:23

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285001

Run Name :
Filename : tr211794

Injected : 30-JUL-2003 07:25
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	986.8000	ug/L	-1	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	498.0000	ug/L	0	5	
Barium	1000.000	989.0000	ug/L	-1	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2020.000	ug/L	1	5	
Chromium	200.0000	200.0000	ug/L	0	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	1004.000	ug/L	0	5	
Lead	500.0000	501.0000	ug/L	0	5	
Magnesium	2000.000	2003.000	ug/L	0	5	
Manganese	100.0000	99.80000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	500.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	997.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285002

Run Name :
Filename : tr211795

Injected : 30-JUL-2003 07:33
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	462.4000	ug/L	-8	10	
Antimony	500.0000	450.0000	ug/L	-10	10	
Arsenic	250.0000	250.0000	ug/L	0	10	
Barium	500.0000	487.0000	ug/L	-3	10	
Beryllium	50.00000	51.30000	ug/L	3	10	
Cadmium	50.00000	48.60000	ug/L	-3	10	
Calcium	1000.000	1038.000	ug/L	4	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	248.0000	ug/L	-1	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	505.5000	ug/L	1	10	
Lead	250.0000	235.0000	ug/L	-6	10	
Magnesium	1000.000	1027.000	ug/L	3	10	
Manganese	50.00000	49.90000	ug/L	0	10	
Molybdenum	500.0000	481.0000	ug/L	-4	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	240.0000	ug/L	-4	10	
Silver	50.00000	49.00000	ug/L	-2	10	
Thallium	250.0000	244.0000	ug/L	-2	10	
Titanium	500.0000	506.0000	ug/L	1	10	
Vanadium	250.0000	249.0000	ug/L	0	10	
Zinc	50.00000	50.30000	ug/L	1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285004

Run Name :
Filename : tr211797

Injected : 30-JUL-2003 07:41
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	107.1000	ug/L	7	50	
Antimony	60.00000	60.40000	ug/L	1	50	
Arsenic	5.000000	4.290000	ug/L	-14	50	
Barium	10.00000	9.850000	ug/L	-2	50	
Beryllium	2.000000	2.160000	ug/L	8	50	
Cadmium	5.000000	4.830000	ug/L	-3	50	
Chromium	10.00000	9.680000	ug/L	-3	50	
Cobalt	20.00000	19.60000	ug/L	-2	50	
Copper	10.00000	11.20000	ug/L	12	50	
Iron	100.0000	107.8000	ug/L	8	50	
Lead	3.000000	1.720000	ug/L	-43	50	
Manganese	10.00000	9.910000	ug/L	-1	50	
Molybdenum	20.00000	20.10000	ug/L	1	50	
Nickel	20.00000	20.30000	ug/L	2	50	
Selenium	5.000000	3.540000	ug/L	-29	50	
Silver	5.000000	4.910000	ug/L	-2	50	
Thallium	5.000000	5.670000	ug/L	13	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	20.50000	ug/L	3	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285014

Run Name :
Filename : tr211807

Injected : 30-JUL-2003 08:45
Caltype :

Standards: Q3WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	458.0000	ug/L	-8	10	
Antimony		500.0000	466.0000	ug/L	-7	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	1031.000	ug/L	3	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	506.2000	ug/L	1	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1009.000	ug/L	1	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	243.0000	ug/L	-3	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	510.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	50.30000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd : MET07
Seqnum : 73304285026

Run Name :
Filename : tr211819

Injected : 30-JUL-2003 09:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	483.3000	ug/L	-3		10	
Antimony		500.0000	469.0000	ug/L	-6		10	
Arsenic		250.0000	259.0000	ug/L	4		10	
Barium		500.0000	488.0000	ug/L	-2		10	
Beryllium		50.00000	50.50000	ug/L	1		10	
Cadmium		50.00000	48.00000	ug/L	-4		10	
Calcium		1000.000	1053.000	ug/L	5		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	104.0000	ug/L	4		10	
Iron		500.0000	496.2000	ug/L	-1		10	
Lead		250.0000	250.0000	ug/L	0		10	
Magnesium		1000.000	1023.000	ug/L	2		10	
Manganese		50.00000	49.20000	ug/L	-2		10	
Molybdenum		500.0000	498.0000	ug/L	0		10	
Nickel		250.0000	244.0000	ug/L	-2		10	
Selenium		250.0000	247.0000	ug/L	-1		10	
Silver		50.00000	50.40000	ug/L	1		10	
Thallium		250.0000	238.0000	ug/L	-5		10	
Titanium		500.0000	511.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	50.80000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285039

Run Name :
Filename : tr211832

Injected : 30-JUL-2003 11:06
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	769.0000	ug/L	3		10	
Antimony		750.0000	775.0000	ug/L	3		10	
Arsenic		375.0000	387.0000	ug/L	3		10	
Barium		750.0000	736.0000	ug/L	-2		10	
Beryllium		75.00000	76.30000	ug/L	2		10	
Cadmium		75.00000	72.90000	ug/L	-3		10	
Calcium		1500.000	1514.000	ug/L	1		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	371.0000	ug/L	-1		10	
Copper		150.0000	153.0000	ug/L	2		10	
Iron		750.0000	800.4000	ug/L	7		10	
Lead		375.0000	386.0000	ug/L	3		10	
Magnesium		1500.000	1523.000	ug/L	2		10	
Manganese		75.00000	74.40000	ug/L	-1		10	
Molybdenum		750.0000	782.0000	ug/L	4		10	
Nickel		375.0000	379.0000	ug/L	1		10	
Selenium		375.0000	380.0000	ug/L	1		10	
Silver		75.00000	75.10000	ug/L	0		10	
Thallium		375.0000	357.0000	ug/L	-5		10	
Titanium		750.0000	759.0000	ug/L	1		10	
Vanadium		375.0000	370.0000	ug/L	-1		10	
Zinc		75.00000	74.90000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5		10	
Antimony		500.0000	465.0000	ug/L	-7		10	
Arsenic		250.0000	266.0000	ug/L	6		10	
Barium		500.0000	496.0000	ug/L	-1		10	
Beryllium		50.00000	51.00000	ug/L	2		10	
Cadmium		50.00000	49.30000	ug/L	-1		10	
Calcium		1000.000	988.1000	ug/L	-1		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	509.2000	ug/L	2		10	
Lead		250.0000	259.0000	ug/L	4		10	
Magnesium		1000.000	1012.000	ug/L	1		10	
Manganese		50.00000	48.80000	ug/L	-2		10	
Molybdenum		500.0000	526.0000	ug/L	5		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	263.0000	ug/L	5		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	248.0000	ug/L	-1		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	246.0000	ug/L	-2		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285051

Run Name :
Filename : tr211844

Injected : 30-JUL-2003 11:59
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	524.4000	ug/L	5		10	
Antimony		500.0000	465.0000	ug/L	-7		10	
Arsenic		250.0000	266.0000	ug/L	6		10	
Barium		500.0000	496.0000	ug/L	-1		10	
Beryllium		50.00000	51.00000	ug/L	2		10	
Cadmium		50.00000	49.30000	ug/L	-1		10	
Calcium		1000.000	988.1000	ug/L	-1		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	509.2000	ug/L	2		10	
Lead		250.0000	259.0000	ug/L	4		10	
Magnesium		1000.000	1012.000	ug/L	1		10	
Manganese		50.00000	48.80000	ug/L	-2		10	
Molybdenum		500.0000	526.0000	ug/L	5		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	263.0000	ug/L	5		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	248.0000	ug/L	-1		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	246.0000	ug/L	-2		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285063

Run Name :
Filename : tr211858

Injected : 30-JUL-2003 12:49
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	243.6000	ug/L	-3	10	
Antimony		250.0000	258.0000	ug/L	3	10	
Arsenic		125.0000	137.0000	ug/L	10	10	
Barium		250.0000	255.0000	ug/L	2	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.50000	ug/L	2	10	
Calcium		500.0000	494.2000	ug/L	-1	10	
Chromium		50.00000	51.20000	ug/L	2	10	
Cobalt		125.0000	126.0000	ug/L	1	10	
Copper		50.00000	51.20000	ug/L	2	10	
Iron		250.0000	265.3000	ug/L	6	10	
Lead		125.0000	120.0000	ug/L	-4	10	
Magnesium		500.0000	521.4000	ug/L	4	10	
Manganese		25.00000	24.60000	ug/L	-2	10	
Molybdenum		250.0000	248.0000	ug/L	-1	10	
Nickel		125.0000	132.0000	ug/L	6	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	24.50000	ug/L	-2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	124.0000	ug/L	-1	10	
Zinc		25.00000	27.60000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285075

Run Name :
Filename : tr211870

Injected : 30-JUL-2003 13:52
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	795.1000	ug/L	6	10	
Antimony		750.0000	744.0000	ug/L	-1	10	
Arsenic		375.0000	409.0000	ug/L	9	10	
Barium		750.0000	764.0000	ug/L	2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	77.90000	ug/L	4	10	
Calcium		1500.000	1527.000	ug/L	2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	145.0000	ug/L	-3	10	
Iron		750.0000	760.4000	ug/L	1	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	70.50000	ug/L	-6	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	395.0000	ug/L	5	10	
Selenium		375.0000	392.0000	ug/L	5	10	
Silver		75.00000	72.50000	ug/L	-3	10	
Thallium		375.0000	390.0000	ug/L	4	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	361.0000	ug/L	-4	10	
Zinc		75.00000	77.90000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285087

Run Name :
Filename : tr211882

Injected : 30-JUL-2003 14:42
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	526.1000	ug/L	5		10	
Antimony		500.0000	463.0000	ug/L	-7		10	
Arsenic		250.0000	258.0000	ug/L	3		10	
Barium		500.0000	492.0000	ug/L	-2		10	
Beryllium		50.00000	51.40000	ug/L	3		10	
Cadmium		50.00000	48.40000	ug/L	-3		10	
Calcium		1000.000	1009.000	ug/L	1		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	526.7000	ug/L	5		10	
Lead		250.0000	249.0000	ug/L	0		10	
Magnesium		1000.000	1018.000	ug/L	2		10	
Manganese		50.00000	50.00000	ug/L	0		10	
Molybdenum		500.0000	494.0000	ug/L	-1		10	
Nickel		250.0000	251.0000	ug/L	0		10	
Selenium		250.0000	239.0000	ug/L	-4		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	240.0000	ug/L	-4		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	51.20000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285099

Run Name :
Filename : tr211894

Injected : 30-JUL-2003 15:28
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	770.7000	ug/L	3		10	
Antimony		750.0000	773.0000	ug/L	3		10	
Arsenic		375.0000	391.0000	ug/L	4		10	
Barium		750.0000	744.0000	ug/L	-1		10	
Beryllium		75.00000	77.60000	ug/L	3		10	
Cadmium		75.00000	74.60000	ug/L	-1		10	
Calcium		1500.000	1468.000	ug/L	-2		10	
Chromium		150.0000	152.0000	ug/L	1		10	
Cobalt		375.0000	375.0000	ug/L	0		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	785.9000	ug/L	5		10	
Lead		375.0000	365.0000	ug/L	-3		10	
Magnesium		1500.000	1528.000	ug/L	2		10	
Manganese		75.00000	74.30000	ug/L	-1		10	
Molybdenum		750.0000	737.0000	ug/L	-2		10	
Nickel		375.0000	382.0000	ug/L	2		10	
Selenium		375.0000	373.0000	ug/L	-1		10	
Silver		75.00000	75.50000	ug/L	1		10	
Thallium		375.0000	365.0000	ug/L	-3		10	
Titanium		750.0000	759.0000	ug/L	1		10	
Vanadium		375.0000	371.0000	ug/L	-1		10	
Zinc		75.00000	76.10000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285111

Run Name :
Filename : tr211906

Injected : 30-JUL-2003 16:15
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	523.1000	ug/L	5	10	
Antimony		500.0000	473.0000	ug/L	-5	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	504.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	548.3000	ug/L	10	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.60000	ug/L	-1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.10000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285111

Run Name :
Filename : tr211906

Injected : 30-JUL-2003 16:15
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	523.1000	ug/L	5	10	
Antimony		500.0000	473.0000	ug/L	-5	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	504.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	548.3000	ug/L	10	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.60000	ug/L	-1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.10000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285123

Run Name :
Filename : tr211918

Injected : 30-JUL-2003 17:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	510.4000	ug/L	2	10	
Antimony		500.0000	467.0000	ug/L	-7	10	
Arsenic		250.0000	261.0000	ug/L	4	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	52.00000	ug/L	4	10	
Cadmium		50.00000	51.00000	ug/L	2	10	
Calcium		1000.000	895.7000	ug/L	-10	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	98.70000	ug/L	-1	10	
Iron		500.0000	519.5000	ug/L	4	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1025.000	ug/L	3	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	53.50000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285130

Run Name :
Filename : tr211925

Injected : 30-JUL-2003 17:45
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	491.5000	ug/L	-2		10	
Antimony		500.0000	527.0000	ug/L	5		10	
Arsenic		250.0000	250.0000	ug/L	0		10	
Barium		500.0000	493.0000	ug/L	-1		10	
Beryllium		50.00000	51.50000	ug/L	3		10	
Cadmium		50.00000	49.10000	ug/L	-2		10	
Calcium		1000.000	993.8000	ug/L	-1		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	506.2000	ug/L	1		10	
Lead		250.0000	238.0000	ug/L	-5		10	
Magnesium		1000.000	1016.000	ug/L	2		10	
Manganese		50.00000	49.50000	ug/L	-1		10	
Molybdenum		500.0000	487.0000	ug/L	-3		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	244.0000	ug/L	-2		10	
Silver		50.00000	50.70000	ug/L	1		10	
Thallium		250.0000	242.0000	ug/L	-3		10	
Titanium		500.0000	507.0000	ug/L	1		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	50.50000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285139

Run Name :
Filename : tr211934

Injected : 30-JUL-2003 18:28
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	810.5000	ug/L	8	10	
Antimony		750.0000	900.0000	ug/L	20	10	1 ***
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	78.30000	ug/L	4	10	
Cadmium		75.00000	76.80000	ug/L	2	10	
Calcium		1500.000	1491.000	ug/L	-1	10	
Chromium		150.0000	160.0000	ug/L	7	10	
Cobalt		375.0000	378.0000	ug/L	1	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	894.4000	ug/L	19	10	1 ***
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1540.000	ug/L	3	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	735.0000	ug/L	-2	10	
Nickel		375.0000	387.0000	ug/L	3	10	
Selenium		375.0000	375.0000	ug/L	0	10	
Silver		75.00000	75.90000	ug/L	1	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	378.0000	ug/L	1	10	
Zinc		75.00000	80.20000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd : MET07
Seqnum : 73304285152

Run Name :
Filename : tr211947

Injected : 30-JUL-2003 19:21
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	598.8000	ug/L	20	10	1	***
Antimony		500.0000	530.0000	ug/L	6	10		
Arsenic		250.0000	260.0000	ug/L	4	10		
Barium		500.0000	519.0000	ug/L	4	10		
Beryllium		50.00000	54.20000	ug/L	8	10		
Cadmium		50.00000	52.80000	ug/L	6	10		
Calcium		1000.000	955.3000	ug/L	-4	10		
Chromium		100.0000	110.0000	ug/L	10	10		
Cobalt		250.0000	259.0000	ug/L	4	10		
Copper		100.0000	103.0000	ug/L	3	10		
Iron		500.0000	635.9000	ug/L	27	10	1	***
Lead		250.0000	252.0000	ug/L	1	10		
Magnesium		1000.000	1050.000	ug/L	5	10		
Manganese		50.00000	50.90000	ug/L	2	10		
Molybdenum		500.0000	498.0000	ug/L	0	10		
Nickel		250.0000	266.0000	ug/L	6	10		
Selenium		250.0000	259.0000	ug/L	4	10		
Silver		50.00000	50.90000	ug/L	2	10		
Thallium		250.0000	259.0000	ug/L	4	10		
Titanium		500.0000	531.0000	ug/L	6	10		
Vanadium		250.0000	256.0000	ug/L	2	10		
Zinc		50.00000	53.80000	ug/L	8	10		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285161

Run Name :
Filename : tr211956

Injected : 30-JUL-2003 20:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	833.3000	ug/L	11		10	1 ***
Antimony		750.0000	918.0000	ug/L	22		10	1 ***
Arsenic		375.0000	404.0000	ug/L	8		10	
Barium		750.0000	774.0000	ug/L	3		10	
Beryllium		75.00000	79.40000	ug/L	6		10	
Cadmium		75.00000	79.70000	ug/L	6		10	
Calcium		1500.000	1389.000	ug/L	-7		10	
Chromium		150.0000	160.0000	ug/L	7		10	
Cobalt		375.0000	384.0000	ug/L	2		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	868.0000	ug/L	16		10	1 ***
Lead		375.0000	373.0000	ug/L	-1		10	
Magnesium		1500.000	1541.000	ug/L	3		10	
Manganese		75.00000	74.00000	ug/L	-1		10	
Molybdenum		750.0000	747.0000	ug/L	0		10	
Nickel		375.0000	398.0000	ug/L	6		10	
Selenium		375.0000	387.0000	ug/L	3		10	
Silver		75.00000	74.70000	ug/L	0		10	
Thallium		375.0000	379.0000	ug/L	1		10	
Titanium		750.0000	772.0000	ug/L	3		10	
Vanadium		375.0000	376.0000	ug/L	0		10	
Zinc		75.00000	81.20000	ug/L	8		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285003
Filename: tr211796

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 30-JUL-2003 07:37

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2540]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[25.520]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5800]	10.00000	ug/L	<RL		
Iron	[10.500]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[8.4260]	500.0000	ug/L	<RL		
Manganese	[0.0660]	10.00000	ug/L	<RL		
Molybdenum	[5.1800]	20.00000	ug/L	<RL		
Nickel	[0.5370]	20.00000	ug/L	<RL		
Selenium	[1.7300]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.5540]	5.000000	ug/L	<RL		
Titanium	[1.9400]	10.00000	ug/L	<RL		
Vanadium	[0.1210]	10.00000	ug/L	<RL		
Zinc	[0.5080]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285015
Filename: tr211808

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 08:52

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[10.300]	60.00000	ug/L	<	RL
Arsenic	[1.5000]	5.000000	ug/L	<	RL
Barium	[0.4090]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[81.470]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.1380]	10.00000	ug/L	<	RL
Copper	[3.0500]	10.00000	ug/L	<	RL
Iron	[12.610]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[18.550]	500.0000	ug/L	<	RL
Manganese	[0.3470]	10.00000	ug/L	<	RL
Molybdenum	[9.0000]	20.00000	ug/L	<	RL
Nickel	[0.2410]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.1070]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.4600]	10.00000	ug/L	<	RL
Vanadium	[0.1750]	10.00000	ug/L	<	RL
Zinc	[0.4280]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285027
Filename: tr211820

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 09:50

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[3.9500]		60.00000	ug/L	<RL	
Arsenic	[0.9970]		5.000000	ug/L	<RL	
Barium	[0.2090]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	[0.2580]		5.000000	ug/L	<RL	
Calcium	[81.480]		500.0000	ug/L	<RL	
Chromium	[0.2080]		10.00000	ug/L	<RL	
Cobalt	[0.1850]		10.00000	ug/L	<RL	
Copper	[3.6200]		10.00000	ug/L	<RL	
Iron	[4.3180]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	[4.6090]		500.0000	ug/L	<RL	
Manganese	[0.1070]		10.00000	ug/L	<RL	
Molybdenum	[3.6600]		20.00000	ug/L	<RL	
Nickel	[0.3950]		20.00000	ug/L	<RL	
Selenium	[1.6500]		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[2.3500]		10.00000	ug/L	<RL	
Vanadium	[0.2530]		10.00000	ug/L	<RL	
Zinc	[0.7150]		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285040
Filename: tr211833

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 11:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[34.180]	100.0000	ug/L	<RL		
Antimony	[0.7180]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.4080]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[66.460]	500.0000	ug/L	<RL		
Chromium	[0.0870]	10.00000	ug/L	<RL		
Cobalt	[0.1470]	10.00000	ug/L	<RL		
Copper	[3.0500]	10.00000	ug/L	<RL		
Iron	[19.140]	100.0000	ug/L	<RL		
Lead	[0.8950]	3.000000	ug/L	<RL		
Magnesium	[9.9080]	500.0000	ug/L	<RL		
Manganese	[0.3020]	10.00000	ug/L	<RL		
Molybdenum	[6.6600]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[3.8300]	10.00000	ug/L	<RL		
Vanadium	[0.1110]	10.00000	ug/L	<RL		
Zinc	[1.1000]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.5900]	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0570]	5.000000	ug/L	<RL	
Calcium	[43.950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.0200]	10.00000	ug/L	<RL	
Iron	[4.0180]	100.0000	ug/L	<RL	
Lead	[0.3990]	3.000000	ug/L	<RL	
Magnesium	[2.2740]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[1.4800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.7100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285052
Filename: tr211846

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 12:07

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[51.410]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.5900]	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0570]	5.000000	ug/L	<RL	
Calcium	[43.950]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.0200]	10.00000	ug/L	<RL	
Iron	[4.0180]	100.0000	ug/L	<RL	
Lead	[0.3990]	3.000000	ug/L	<RL	
Magnesium	[2.2740]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[1.4800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.7100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.2700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.3000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285064
Filename: tr211859

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 13:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[6.4490]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1090]	10.00000	ug/L	<RL	
Beryllium	[0.1500]	2.000000	ug/L	<RL	
Cadmium	[0.1500]	5.000000	ug/L	<RL	
Calcium	[19.130]	500.0000	ug/L	<RL	
Chromium	[0.2170]	10.00000	ug/L	<RL	
Cobalt	[0.3870]	10.00000	ug/L	<RL	
Copper	[0.6960]	10.00000	ug/L	<RL	
Iron	[14.640]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[10.730]	500.0000	ug/L	<RL	
Manganese	[0.1740]	10.00000	ug/L	<RL	
Molybdenum	[1.1500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.5800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.5800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285076
Filename: tr211871

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:01

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[49.290]	100.0000	ug/L	<RL		
Antimony	[8.2200]	60.00000	ug/L	<RL		
Arsenic	[0.6290]	5.000000	ug/L	<RL		
Barium	[0.4790]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.2840]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.4510]	10.00000	ug/L	<RL		
Cobalt	[0.3240]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[11.880]	100.0000	ug/L	<RL		
Lead	[0.6550]	3.000000	ug/L	<RL		
Magnesium	[6.5550]	500.0000	ug/L	<RL		
Manganese	[0.2320]	10.00000	ug/L	<RL		
Molybdenum	[11.600]	20.00000	ug/L	<RL		
Nickel	[0.6950]	20.00000	ug/L	<RL		
Selenium	[2.8400]	5.000000	ug/L	<RL		
Silver	[0.1400]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[6.2500]	10.00000	ug/L	<RL		
Vanadium	[0.0230]	10.00000	ug/L	<RL		
Zinc	[2.1600]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285088
Filename: tr211883

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 14:49

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[53.270]	100.0000	ug/L	<RL	
Antimony	[10.600]	60.00000	ug/L	<RL	
Arsenic	[1.0000]	5.000000	ug/L	<RL	
Barium	[0.3220]	10.00000	ug/L	<RL	
Beryllium	[0.7420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1500]	10.00000	ug/L	<RL	
Cobalt	[0.1280]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.610]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.2400]	500.0000	ug/L	<RL	
Manganese	[0.2460]	10.00000	ug/L	<RL	
Molybdenum	[7.5400]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[5.5200]	10.00000	ug/L	<RL	
Vanadium	[0.2930]	10.00000	ug/L	<RL	
Zinc	[1.7800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285100
Filename: tr211895

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 15:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[75.490]	100.0000	ug/L	<RL	
Antimony	[4.7200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.3020]	10.00000	ug/L	<RL	
Beryllium	[1.4300]	2.000000	ug/L	<RL	
Cadmium	[0.0240]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1820]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.330]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.5880]	500.0000	ug/L	<RL	
Manganese	[0.3470]	10.00000	ug/L	<RL	
Molybdenum	[8.5100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1560]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.8700]	10.00000	ug/L	<RL	
Vanadium	[0.2710]	10.00000	ug/L	<RL	
Zinc	[2.0700]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285112
Filename: tr211907

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 16:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[1.8800]		60.00000	ug/L	<	RL
Arsenic	[0.9160]		5.000000	ug/L	<	RL
Barium	[0.1680]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.0650]		10.00000	ug/L	<	RL
Cobalt	[0.0780]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[15.940]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.6550]		500.0000	ug/L	<	RL
Manganese	[0.2490]		10.00000	ug/L	<	RL
Molybdenum	[3.0700]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.0720]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.0300]		10.00000	ug/L	<	RL
Vanadium	[0.1980]		10.00000	ug/L	<	RL
Zinc	[2.2300]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285124
Filename: tr211919

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 17:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[23.980]	100.0000	ug/L	<	RL
Antimony	[6.4200]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.4080]	10.00000	ug/L	<	RL
Beryllium	[0.9050]	2.000000	ug/L	<	RL
Cadmium	[0.0200]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	[0.2260]	10.00000	ug/L	<	RL
Cobalt	[0.1660]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[22.320]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[11.810]	500.0000	ug/L	<	RL
Manganese	[0.4560]	10.00000	ug/L	<	RL
Molybdenum	[8.6800]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[1.3500]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[7.8400]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[2.7300]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285131
Filename: tr211926

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 17:58

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[23.130]	100.0000	ug/L	<RL	
Antimony	[2.4200]	60.00000	ug/L	<RL	
Arsenic	[0.6330]	5.000000	ug/L	<RL	
Barium	[0.0660]	10.00000	ug/L	<RL	
Beryllium	[1.0300]	2.000000	ug/L	<RL	
Cadmium	[0.2060]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2170]	10.00000	ug/L	<RL	
Cobalt	[0.1640]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.8300]	20.00000	ug/L	<RL	
Nickel	[0.1140]	20.00000	ug/L	<RL	
Selenium	[2.7200]	5.000000	ug/L	<RL	
Silver	[1.0700]	5.000000	ug/L	<RL	
Thallium	6.860000	5.000000	ug/L	<RL	d ***
Titanium	[0.7780]	10.00000	ug/L	<RL	
Vanadium	[0.5260]	10.00000	ug/L	<RL	
Zinc	[0.3460]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285141
Filename: tr211936

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 18:40

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[45.670]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.2410]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.7200]	2.000000	ug/L	<RL	
Cadmium	[0.0610]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.0800]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[62.740]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.2518]	500.0000	ug/L	<RL	
Manganese	[0.2080]	10.00000	ug/L	<RL	
Molybdenum	[0.7470]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.7700]	5.000000	ug/L	<RL	
Silver	[0.8620]	5.000000	ug/L	<RL	
Thallium	[2.2000]	5.000000	ug/L	<RL	
Titanium	[1.2800]	10.00000	ug/L	<RL	
Vanadium	[0.1290]	10.00000	ug/L	<RL	
Zinc	[0.7160]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285154
Filename: tr211949

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 19:32

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[79.610]	100.0000	ug/L	<RL	
Antimony	[2.5700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	2.830000	2.000000	ug/L	<RL	d ***
Cadmium	[0.0240]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.5600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[77.620]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.3220]	10.00000	ug/L	<RL	
Molybdenum	[0.5390]	20.00000	ug/L	<RL	
Nickel	[0.1470]	20.00000	ug/L	<RL	
Selenium	[1.0000]	5.000000	ug/L	<RL	
Silver	[0.8420]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6800]	10.00000	ug/L	<RL	
Vanadium	[0.3660]	10.00000	ug/L	<RL	
Zinc	[1.3200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73304285163
Filename: tr211958

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 30-JUL-2003 20:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	111.2000	100.0000	ug/L	<RL	d	***
Antimony	[6.9500]	60.00000	ug/L	<RL		
Arsenic	[2.3600]	5.000000	ug/L	<RL		
Barium	[0.0370]	10.00000	ug/L	<RL		
Beryllium	3.680000	2.000000	ug/L	<RL	d	***
Cadmium	[0.1040]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[5.9500]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[87.110]	100.0000	ug/L	<RL		
Lead	[0.4690]	3.000000	ug/L	<RL		
Magnesium	[2.7810]	500.0000	ug/L	<RL		
Manganese	[0.3510]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.0110]	20.00000	ug/L	<RL		
Selenium	5.730000	5.000000	ug/L	<RL	d	***
Silver	[0.7730]	5.000000	ug/L	<RL		
Thallium	5.410000	5.000000	ug/L	<RL	d	***
Titanium	[3.1600]	10.00000	ug/L	<RL		
Vanadium	[0.7500]	10.00000	ug/L	<RL		
Zinc	[1.6500]	20.00000	ug/L	<RL		

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INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285005

Run Name :
Filename : tr211798

Injected : 30-JUL-2003 07:55
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	510900.0	ug/L	2		
Antimony	500.0000	467.0000	ug/L	-7	20	
Arsenic	500.0000	528.0000	ug/L	6	20	
Barium	500.0000	495.0000	ug/L	-1	20	
Beryllium	500.0000	516.0000	ug/L	3	20	
Cadmium	1000.000	963.0000	ug/L	-4	20	
Calcium	500000.0	484600.0	ug/L	-3		
Chromium	500.0000	486.0000	ug/L	-3	20	
Cobalt	500.0000	485.0000	ug/L	-3	20	
Copper	500.0000	530.0000	ug/L	6	20	
Iron	200000.0	189900.0	ug/L	-5		
Lead	1000.000	876.0000	ug/L	-12	20	
Magnesium	500000.0	527800.0	ug/L	6		
Manganese	500.0000	499.0000	ug/L	0	20	
Molybdenum	500.0000	473.0000	ug/L	-5	20	
Nickel	1000.000	1050.000	ug/L	5	20	
Selenium	500.0000	497.0000	ug/L	-1	20	
Silver	1000.000	1070.000	ug/L	7	20	
Thallium	500.0000	483.0000	ug/L	-3	20	
Titanium	20000.00	2050.000	ug/L	-90		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	1010.000	ug/L	1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285028

Run Name :
Filename : tr211821

Injected : 30-JUL-2003 09:54
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516100.0	ug/L	3		
Antimony	500.0000	453.0000	ug/L	-9	20	
Arsenic	500.0000	539.0000	ug/L	8	20	
Barium	500.0000	507.0000	ug/L	1	20	
Beryllium	500.0000	520.0000	ug/L	4	20	
Cadmium	1000.000	960.0000	ug/L	-4	20	
Calcium	500000.0	453200.0	ug/L	-9		
Chromium	500.0000	488.0000	ug/L	-2	20	
Cobalt	500.0000	486.0000	ug/L	-3	20	
Copper	500.0000	526.0000	ug/L	5	20	
Iron	200000.0	185100.0	ug/L	-7		
Lead	1000.000	877.0000	ug/L	-12	20	
Magnesium	500000.0	529100.0	ug/L	6		
Manganese	500.0000	491.0000	ug/L	-2	20	
Molybdenum	500.0000	481.0000	ug/L	-4	20	
Nickel	1000.000	1020.000	ug/L	2	20	
Selenium	500.0000	512.0000	ug/L	2	20	
Silver	1000.000	1060.000	ug/L	6	20	
Thallium	500.0000	479.0000	ug/L	-4	20	
Titanium	20000.00	2080.000	ug/L	-90		
Vanadium	500.0000	498.0000	ug/L	0	20	
Zinc	1000.000	1020.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285113

Run Name :
Filename : tr211908

Injected : 30-JUL-2003 16:25
Caltype :

Standards: Q3WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	524600.0	ug/L	5			
Antimony	500.0000	499.0000	ug/L	0	20		
Arsenic	500.0000	548.0000	ug/L	10	20		
Barium	500.0000	518.0000	ug/L	4	20		
Beryllium	500.0000	502.0000	ug/L	0	20		
Cadmium	1000.000	990.0000	ug/L	-1	20		
Calcium	500000.0	450400.0	ug/L	-10			
Chromium	500.0000	499.0000	ug/L	0	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	524.0000	ug/L	5	20		
Iron	200000.0	186100.0	ug/L	-7			
Lead	1000.000	901.0000	ug/L	-10	20		
Magnesium	500000.0	520400.0	ug/L	4			
Manganese	500.0000	490.0000	ug/L	-2	20		
Molybdenum	500.0000	494.0000	ug/L	-1	20		
Nickel	1000.000	1070.000	ug/L	7	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	945.0000	ug/L	-6	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2120.000	ug/L	-89			
Vanadium	500.0000	499.0000	ug/L	0	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285113

Run Name :
Filename : tr211908

Injected : 30-JUL-2003 16:25
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	524600.0	ug/L	5		
Antimony	500.0000	499.0000	ug/L	0	20	
Arsenic	500.0000	548.0000	ug/L	10	20	
Barium	500.0000	518.0000	ug/L	4	20	
Beryllium	500.0000	502.0000	ug/L	0	20	
Cadmium	1000.000	990.0000	ug/L	-1	20	
Calcium	500000.0	450400.0	ug/L	-10		
Chromium	500.0000	499.0000	ug/L	0	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	524.0000	ug/L	5	20	
Iron	200000.0	186100.0	ug/L	-7		
Lead	1000.000	901.0000	ug/L	-10	20	
Magnesium	500000.0	520400.0	ug/L	4		
Manganese	500.0000	490.0000	ug/L	-2	20	
Molybdenum	500.0000	494.0000	ug/L	-1	20	
Nickel	1000.000	1070.000	ug/L	7	20	
Selenium	500.0000	532.0000	ug/L	6	20	
Silver	1000.000	945.0000	ug/L	-6	20	
Thallium	500.0000	485.0000	ug/L	-3	20	
Titanium	20000.00	2120.000	ug/L	-89		
Vanadium	500.0000	499.0000	ug/L	0	20	
Zinc	1000.000	1030.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73304285164

Run Name :
Filename : tr211959

Injected : 30-JUL-2003 20:16
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	512100.0	ug/L	2		
Antimony	500.0000	591.0000	ug/L	18	20	
Arsenic	500.0000	582.0000	ug/L	16	20	
Barium	500.0000	543.0000	ug/L	9	20	
Beryllium	500.0000	503.0000	ug/L	1	20	
Cadmium	1000.000	1070.000	ug/L	7	20	
Calcium	500000.0	452300.0	ug/L	-10		
Chromium	500.0000	508.0000	ug/L	2	20	
Cobalt	500.0000	508.0000	ug/L	2	20	
Copper	500.0000	540.0000	ug/L	8	20	
Iron	200000.0	194500.0	ug/L	-3		
Lead	1000.000	951.0000	ug/L	-5	20	
Magnesium	500000.0	541600.0	ug/L	8		
Manganese	500.0000	495.0000	ug/L	-1	20	
Molybdenum	500.0000	512.0000	ug/L	2	20	
Nickel	1000.000	1120.000	ug/L	12	20	
Selenium	500.0000	546.0000	ug/L	9	20	
Silver	1000.000	1050.000	ug/L	5	20	
Thallium	500.0000	523.0000	ug/L	5	20	
Titanium	20000.00	2130.000	ug/L	-89		
Vanadium	500.0000	520.0000	ug/L	4	20	
Zinc	1000.000	1100.000	ug/L	10	20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr211794	CS				30-JUL-2003 07:25	1.0	1.0				1	
002	tr211795	ICV				30-JUL-2003 07:33	1.0	1.0				2	
003	tr211796	ICB				30-JUL-2003 07:37	1.0	1.0				3	
004	tr211797	CRI				30-JUL-2003 07:41	1.0	1.0				4	4:MG=527800
005	tr211798	ICSAB				30-JUL-2003 07:55	1.0	50.0					
006	tr211799	BLANK				30-JUL-2003 07:59	1.0	50.0					
007	tr211800	BS				30-JUL-2003 08:04	1.0	50.0					
008	tr211801	BSD				30-JUL-2003 08:08	1.0	43.66812	2				2:FE=423300
009	tr211802	MSS				30-JUL-2003 08:16	1.0	43.66812	1				
010	tr211803	SER				30-JUL-2003 08:20	5.0	46.29630		1			2:FE=377900
011	tr211804	MS				30-JUL-2003 08:24	1.0	39.84064					2:FE=471200
012	tr211805	MSD				30-JUL-2003 08:28	1.0	43.66812				5 6	2:FE=433300
013	tr211806	PDS				30-JUL-2003 08:34	1.0	1.0				7	
014	tr211807	CCV				30-JUL-2003 08:45	1.0	1.0					
015	tr211808	CCB				30-JUL-2003 08:52	1.0	46.72897					
016	tr211809	SAMPLE				30-JUL-2003 08:57	1.0	46.51163					
017	tr211810	SAMPLE				30-JUL-2003 09:01	1.0	47.39336					
018	tr211811	SAMPLE				30-JUL-2003 09:04	1.0	37.87879	1				5:PB=750000
019	tr211812	SAMPLE				30-JUL-2003 09:08	1.0	37.87879					
020	tr211813	SAMPLE				30-JUL-2003 09:15	50.0	1.0					2:MG=782100
021	tr211814	SAMPLE				30-JUL-2003 09:19	1.0	1.0					2:MG=742700
022	tr211815	SAMPLE				30-JUL-2003 09:23	1.0	1.0					2:MG=777700
023	tr211816	SAMPLE				30-JUL-2003 09:27	1.0	1.0					1:MG=118700
024	tr211817	SAMPLE				30-JUL-2003 09:31	1.0	43.66812		3			
025	tr211818	SER				30-JUL-2003 09:35	5.0	1.0					
026	tr211819	CCV				30-JUL-2003 09:44	1.0	1.0				7	
027	tr211820	CCB				30-JUL-2003 09:50	1.0	1.0					
028	tr211821	ICSAB				30-JUL-2003 09:54	1.0	50.0				4	4:MG=529100
029	tr211822	BLANK				30-JUL-2003 09:59	1.0	50.0					
030	tr211823	BS				30-JUL-2003 10:06	1.0	50.0					
031	tr211824	BSD				30-JUL-2003 10:09	1.0	50.0					
032	tr211825	MSS				30-JUL-2003 10:14	1.0	47.39336	1				1:FE=138300

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS115;

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
033	tr211826	SER	QC220324	83185	Soil	30-JUL-2003	10:21 5.0	47.39336		1			
034	tr211827	MSS	166535-021	83185	Soil	30-JUL-2003	10:25 10.0	47.39336					
035	tr211828	SER	QC220324	83185	Soil	30-JUL-2003	10:50 5.0	47.39336		1			
036	tr211829	SER	QC220324	83185	Soil	30-JUL-2003	10:53 50.0	47.39336		1			
037	tr211830	MS	QC220322	83185	Soil	30-JUL-2003	10:57 1.0	48.07692	1	2			2:FE=175900
038	tr211831	MSD	QC220323	83185	Soil	30-JUL-2003	11:01 1.0	47.84689	1	2			2:FE=177700
039	tr211832	CCV				30-JUL-2003	11:06 1.0	1.0				8	
040	tr211833	CCB				30-JUL-2003	11:12 1.0	1.0					
041	tr211834	SAMPLE	166535-022	83185	Soil	30-JUL-2003	11:16 1.0	45.66210					2:FE=248200
042	tr211835	SAMPLE	166535-023	83185	Soil	30-JUL-2003	11:19 1.0	47.16981					2:FE=226000
043	tr211836	SAMPLE	166535-024	83185	Soil	30-JUL-2003	11:23 1.0	46.94836					1:FE=138400
044	tr211837	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:26 1.0	48.07692	1				1:FE=124500
045	tr211838	SAMPLE	166535-027	83185	Soil	30-JUL-2003	11:30 1.0	48.07692	1				1:FE=140000
046	tr211839	SAMPLE	166535-028	83185	Soil	30-JUL-2003	11:33 1.0	46.51163					1:FE=172800
047	tr211840	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:37 1.0	45.45455	2				1:FE=155800
048	tr211841	SAMPLE	166535-025	83185	Soil	30-JUL-2003	11:41 1.0	48.07692					1:FE=126500
049	tr211842	SAMPLE	166535-029	83185	Soil	30-JUL-2003	11:44 1.0	45.45455	1				1:FE=153600
050	tr211843	PDS	QC220661	83185	Soil	30-JUL-2003	11:48 1.0	47.39336				9 10	1:FE=161200
051	tr211844	CCV				30-JUL-2003	11:59 1.0	1.0				7	
052	tr211846	CCB				30-JUL-2003	12:07 1.0	1.0					
053	tr211848	SAMPLE	166535-027	83185	Soil	30-JUL-2003	12:12 10.0	48.07692	1				
054	tr211849	SAMPLE	166535-029	83185	Soil	30-JUL-2003	12:16 10.0	45.45455					
055	tr211850	SAMPLE	166535-030	83185	Soil	30-JUL-2003	12:19 1.0	45.24887					1:FE=168800
056	tr211851	SAMPLE	166535-031	83185	Soil	30-JUL-2003	12:23 1.0	47.39336					1:FE=143300
057	tr211852	SAMPLE	166535-032	83185	Soil	30-JUL-2003	12:26 1.0	46.72897					1:FE=158800
058	tr211853	SAMPLE	166535-033	83185	Soil	30-JUL-2003	12:30 1.0	48.54369					1:FE=119200
059	tr211854	SAMPLE	166535-034	83185	Soil	30-JUL-2003	12:33 1.0	45.24887					1:FE=139700
060	tr211855	SAMPLE	166535-035	83185	Soil	30-JUL-2003	12:37 1.0	46.08295					1:FE=133500
061	tr211856	MS	QC220322	83185	Soil	30-JUL-2003	12:40 10.0	48.07692		3			
062	tr211857	MSD	QC220323	83185	Soil	30-JUL-2003	12:44 10.0	47.84689					
063	tr211858	CCV				30-JUL-2003	12:49 1.0	1.0					
064	tr211859	CCB				30-JUL-2003	13:00 1.0	1.0				11	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
065	tr211860	BLANK	QC220313	83184	Soil	30-JUL-2003	13:03	1.0	50.0					
066	tr211861	BS	QC220314	83184	Soil	30-JUL-2003	13:07	1.0	50.0					
067	tr211862	BSD	QC220315	83184	Soil	30-JUL-2003	13:11	1.0	50.0					
068	tr211863	MSS	166535-014	83184	Soil	30-JUL-2003	13:15	1.0	42.01681	2				1:FE=165000
069	tr211864	MSS	166535-014	83184	Soil	30-JUL-2003	13:19	1.0	42.01681	1				1:FE=164800
070	tr211865	MSS	166535-014	83184	Soil	30-JUL-2003	13:22	10.0	42.01681					
071	tr211866	SER	QC220318	83184	Soil	30-JUL-2003	13:26	5.0	42.01681					
072	tr211867	SER	QC220318	83184	Soil	30-JUL-2003	13:40	50.0	42.01681	1				
073	tr211868	MS	QC220316	83184	Soil	30-JUL-2003	13:43	1.0	45.04505					2:FE=184000
074	tr211869	MSD	QC220317	83184	Soil	30-JUL-2003	13:47	1.0	48.54369					2:FE=183400
075	tr211870	CCV				30-JUL-2003	13:52	1.0	1.0				8	
076	tr211871	CCB				30-JUL-2003	14:01	1.0	1.0					
077	tr211872	SAMPLE	166535-001	83184	Soil	30-JUL-2003	14:04	1.0	46.51163	1				1:FE=137200
078	tr211873	SAMPLE	166535-002	83184	Soil	30-JUL-2003	14:08	1.0	44.64286					1:FE=140900
079	tr211874	SAMPLE	166535-003	83184	Soil	30-JUL-2003	14:11	1.0	45.24887					1:FE=136500
080	tr211875	SAMPLE	166535-004	83184	Soil	30-JUL-2003	14:15	1.0	45.66210					1:FE=113400
081	tr211876	SAMPLE	166535-005	83184	Soil	30-JUL-2003	14:18	1.0	45.24887					1:FE=122000
082	tr211877	SAMPLE	166535-006	83184	Soil	30-JUL-2003	14:22	1.0	47.84689	1				1:FE=110900
083	tr211878	SAMPLE	166535-007	83184	Soil	30-JUL-2003	14:25	1.0	44.24779					3:CA=1062000
084	tr211879	SAMPLE	166535-008	83184	Soil	30-JUL-2003	14:29	1.0	45.45455	1				1:FE=144100
085	tr211880	SAMPLE	166535-009	83184	Soil	30-JUL-2003	14:32	1.0	45.04505	1				1:FE=123500
086	tr211881	SAMPLE	166535-010	83184	Soil	30-JUL-2003	14:36	1.0	45.87156					1:FE=147600
087	tr211882	CCV				30-JUL-2003	14:42	1.0	1.0				7	
088	tr211883	CCB				30-JUL-2003	14:49	1.0	1.0					
089	tr211884	SAMPLE	166535-001	83184	Soil	30-JUL-2003	14:52	1.0	46.51163					1:FE=139100
090	tr211885	SAMPLE	166535-006	83184	Soil	30-JUL-2003	14:56	1.0	47.84689					1:FE=109400
091	tr211886	SAMPLE	166535-008	83184	Soil	30-JUL-2003	14:59	10.0	45.45455	1				
092	tr211887	SAMPLE	166535-009	83184	Soil	30-JUL-2003	15:03	10.0	45.04505	1				
093	tr211888	SAMPLE	166535-036	83185	Soil	30-JUL-2003	15:07	1.0	47.16981					1:FE=144800
094	tr211889	SAMPLE	166535-037	83185	Soil	30-JUL-2003	15:10	1.0	44.64286					1:FE=156400
095	tr211890	SAMPLE	166535-038	83185	Soil	30-JUL-2003	15:13	1.0	45.45455					1:FE=137700
096	tr211891	SAMPLE	166535-039	83185	Soil	30-JUL-2003	15:17	1.0	45.04505					1:FE=124800

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Melvin Date: 7/30/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
097	tr211892	SAMPLE	166535-040	83185	Soil	30-JUL-2003 15:20	1.0	48.30918				1:FE=130500	
098	tr211893	SAMPLE	166535-041	83185	Soil	30-JUL-2003 15:24	1.0	47.61905				1:FE=143900	
099	tr211894	CCV				30-JUL-2003 15:28	1.0	1.0					8
100	tr211895	CCB				30-JUL-2003 15:33	1.0	1.0					
101	tr211896	SAMPLE	166535-011	83184	Soil	30-JUL-2003 15:36	1.0	46.94836				1:FE=141900	
102	tr211897	SAMPLE	166535-012	83184	Soil	30-JUL-2003 15:40	1.0	45.66210				1:FE=159300	
103	tr211898	SAMPLE	166535-013	83184	Soil	30-JUL-2003 15:43	1.0	48.78049				1:FE=139500	
104	tr211899	SAMPLE	166535-015	83184	Soil	30-JUL-2003 15:47	1.0	47.39336				1:FE=139600	
105	tr211900	SAMPLE	166535-016	83184	Soil	30-JUL-2003 15:50	1.0	44.24779				1:FE=157700	
106	tr211901	SAMPLE	166535-017	83184	Soil	30-JUL-2003 15:54	1.0	47.16981				1:FE=128400	
107	tr211902	SAMPLE	166535-018	83184	Soil	30-JUL-2003 15:57	1.0	46.29630				1:FE=157200	
108	tr211903	SAMPLE	166535-019	83184	Soil	30-JUL-2003 16:01	1.0	45.24887				1:FE=143100	
109	tr211904	SAMPLE	166535-020	83184	Soil	30-JUL-2003 16:04	1.0	43.85965				1:FE=167000	
110	tr211905	SAMPLE	166560-001	83258	Soil	30-JUL-2003 16:08	1.0	45.24887				2:FE=216500	
111	tr211906	CCV				30-JUL-2003 16:15	1.0	1.0					7
112	tr211907	CCB				30-JUL-2003 16:21	1.0	1.0					
113	tr211908	ICGSAB				30-JUL-2003 16:25	1.0	1.0					4
114	tr211909	SAMPLE	166560-002	83258	Soil	30-JUL-2003 16:28	1.0	43.85965				4:AL=524600	
115	tr211910	SAMPLE	166560-004	83258	Soil	30-JUL-2003 16:32	1.0	41.8410				3:FE=386100	
116	tr211911	SAMPLE	166560-002	83258	Soil	30-JUL-2003 16:36	1.0	43.85965				2:FE=253400	
117	tr211912	SAMPLE	166560-005	83258	Soil	30-JUL-2003 16:40	1.0	37.87879				3:FE=384400	
118	tr211913	SAMPLE	166560-006	83258	Soil	30-JUL-2003 16:43	1.0	42.73504				2:FE=295200	
119	tr211914	SAMPLE	166560-013	83258	Soil	30-JUL-2003 16:47	1.0	41.49378				2:FE=328900	
120	tr211915	SAMPLE	166560-017	83258	Soil	30-JUL-2003 16:50	1.0	48.78049				2:FE=300100	
121	tr211916	SAMPLE	166560-019	83258	Soil	30-JUL-2003 16:54	1.0	42.55319				2:FE=227200	
122	tr211917	SAMPLE	166560-020	83258	Soil	30-JUL-2003 16:57	1.0	41.49378				4:FE=459000	
123	tr211918	CCV				30-JUL-2003 17:06	1.0	1.0				3:FE=375900	
124	tr211919	CCB				30-JUL-2003 17:10	1.0	1.0					7
125	tr211920	SAMPLE	166560-006	83258	Soil	30-JUL-2003 17:17	1.0	42.73504				2:FE=325600	
126	tr211921	SAMPLE	166560-021	83258	Soil	30-JUL-2003 17:20	1.0	41.8410				1:FE=176200	
127	tr211922	BLANK	QC220617	83259	Soil	30-JUL-2003 17:24	1.0	50.0					
128	tr211923	BS	QC220618	83259	Soil	30-JUL-2003 17:27	1.0	50.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: Mes Ue Date: 7/30/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
129	tr211924	BSD	QC220619	83259	Soil	30-JUL-2003 17:31	1.0	50.0	1				
130	tr211925	CCV				30-JUL-2003 17:45	1.0	1.0					
131	tr211926	CCB				30-JUL-2003 17:58	1.0	1.0	1				
132	tr211927	MSS	166561-001	83259	Soil	30-JUL-2003 18:01	1.0	41.49378	4				
133	tr211928	SER	QC220622	83259	Soil	30-JUL-2003 18:05	5.0	41.49378	1				
134	tr211929	MS	QC220620	83259	Soil	30-JUL-2003 18:08	1.0	38.75969	1				
135	tr211930	MSD	QC220621	83259	Soil	30-JUL-2003 18:12	1.0	48.07692	1				
136	tr211931	SAMPLE	166561-002	83259	Soil	30-JUL-2003 18:15	1.0	45.24887					
137	tr211932	SAMPLE	166561-003	83259	Soil	30-JUL-2003 18:19	1.0	37.59398					
138	tr211933	SAMPLE	166561-004	83259	Soil	30-JUL-2003 18:22	1.0	48.54369					
139	tr211934	CCV				30-JUL-2003 18:28	1.0	1.0	2				
140	tr211935	X				30-JUL-2003 18:35	1.0	1.0					
141	tr211936	CCB				30-JUL-2003 18:40	1.0	1.0					
142	tr211937	SAMPLE	166561-005	83259	Soil	30-JUL-2003 18:44	1.0	46.08295	1				
143	tr211938	SAMPLE	166561-006	83259	Soil	30-JUL-2003 18:47	1.0	42.37288					
144	tr211939	SAMPLE	166561-007	83259	Soil	30-JUL-2003 18:51	1.0	47.39336					
145	tr211940	SAMPLE	166561-008	83259	Soil	30-JUL-2003 18:54	1.0	44.84305					
146	tr211941	SAMPLE	166561-009	83259	Soil	30-JUL-2003 18:58	1.0	46.72897					
147	tr211942	SAMPLE	166561-010	83259	Soil	30-JUL-2003 19:01	1.0	45.87156					
148	tr211943	SAMPLE	166561-011	83259	Soil	30-JUL-2003 19:05	1.0	49.50495					
149	tr211944	SAMPLE	166561-012	83259	Soil	30-JUL-2003 19:08	1.0	43.85965					
150	tr211945	SAMPLE	166561-013	83259	Soil	30-JUL-2003 19:12	1.0	48.30918					
151	tr211946	SAMPLE	166561-015	83259	Soil	30-JUL-2003 19:15	1.0	40.81633					
152	tr211947	CCV				30-JUL-2003 19:21	1.0	1.0	2				
153	tr211948	X				30-JUL-2003 19:28	1.0	1.0					
154	tr211949	CCB				30-JUL-2003 19:32	1.0	1.0	1				
155	tr211950	SAMPLE	166561-016	83259	Soil	30-JUL-2003 19:37	1.0	48.07692	1				
156	tr211951	SAMPLE	166561-017	83259	Soil	30-JUL-2003 19:40	1.0	47.61905					
157	tr211952	SAMPLE	166561-018	83259	Soil	30-JUL-2003 19:44	1.0	47.84689					
158	tr211953	SAMPLE	166561-019	83259	Soil	30-JUL-2003 19:47	1.0	49.01961					
159	tr211954	SAMPLE	166561-020	83259	Soil	30-JUL-2003 19:50	1.0	49.26108					
160	tr211955	SAMPLE	166561-021	83259	Soil	30-JUL-2003 19:54	1.0	47.84689					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: McCu Date: 7/31/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73304285 Instrument: MET07 TJA Trace ICP

Begun: 30-JUL-2003

#	Filename	Type	Sample	num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
161	tr211956	CCV					30-JUL-2003 20:01	1.0	1.0	3			8		
162	tr211957	X	rinse				30-JUL-2003 20:08	1.0	1.0						
163	tr211958	CCB					30-JUL-2003 20:12	1.0	1.0	4					
164	tr211959	ICSAB					30-JUL-2003 20:16	1.0	1.0				4		4:MG=541600

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03SS74 6=03SS75 7=03WS1150 8=03WS1151 9=03SS286 10=03SS287 11=03WS1152

Analyst: MEW Date: 7/30/03

Method: 6010B Standard: blank
Run Time: 07/31/03 06:45:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.000	-.087	.000	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	84.7	10.7	77.2	218.	.242	82.1	23.9
#1	-.000	.001	-.000	.000	-.087	.000	.000
#2	-.001	.001	-.000	-.000	-.087	.000	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	.000	-.001
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	46.9	3.20	71.5	44.9	38.8	97.8	36.3
#1	-.000	-.003	.001	.000	.000	.000	-.001
#2	-.000	-.002	.000	.000	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.004	.0262	-.0066
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	20.7	236.	.283	11.7	.627	.3532	.5123
#1	.001	-.000	-.000	.000	.004	.0262	-.0066
#2	.001	.000	-.000	.000	.004	.0263	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0005	.0001	.000	.054			
SDev	.0001	.0000	.000	.000			
%RSD	26.66	10.60	29.0	.283			
#1	-.0004	.0001	.000	.054			
#2	-.0005	.0001	.000	.054			

Method: 6010B Standard: cst hi

Run Time: 07/31/03 06:52:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.140	.087	.034	5.04	.586	.197	.046
SDev	.004	.003	.001	.01	.001	.000	.000
%RSD	3.01	3.31	1.71	.128	.105	.172	.076
#1	.137	.085	.034	5.04	.585	.198	.046
#2	.143	.089	.035	5.03	.586	.197	.046
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.127	.120	.138	.140	.243	.323	.037
SDev	.000	.000	.001	.000	.002	.000	.000
%RSD	.292	.099	.506	.303	.677	.118	.615
#1	.127	.120	.139	.140	.242	.323	.037
#2	.127	.120	.138	.140	.244	.323	.038
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.045	.074	.024	.190	.029	.0529	.0582
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	2.40	.208	.037	.124	.033	.1275	.0046
#1	.046	.074	.024	.190	.029	.0529	.0582
#2	.044	.074	.024	.190	.029	.0528	.0582
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0238	.0357	.204	1.82			
SDev	.0002	.0001	.000	.00			
%RSD	.6685	.2492	.050	.023			
#1	.0237	.0357	.204	1.82			
#2	.0239	.0358	.205	1.82			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	7049.65	5.10082	07/31/03 06:52:30
Sb206A	206.832	Multiple	Standards	11321.5	-9.05347	07/31/03 06:52:30
As1890	189.042	Multiple	Standards	14402.8	4.09173	07/31/03 06:52:30
Ba4934	493.409	Multiple	Standards	198.578	-.023516	07/31/03 06:52:30
Be3130	313.042	Multiple	Standards	143.606	12.4607	07/31/03 06:52:30
Cd2265	226.502	Multiple	Standards	506.590	-.155130	07/31/03 06:52:30
Cr2677	267.716	Multiple	Standards	4332.65	-.952905	07/31/03 06:52:30
Co2286	228.616	Multiple	Standards	3935.67	.696472	07/31/03 06:52:30
Cu3247	324.754	Multiple	Standards	1632.94	4.07111	07/31/03 06:52:30
Pb2203	220.351	Multiple	Standards	3635.38	-2.28473	07/31/03 06:52:30
Pb220A	220.352	Multiple	Standards	3547.94	-.894247	07/31/03 06:52:30
Mo2020	202.030	Multiple	Standards	4120.70	-1.21684	07/31/03 06:52:30
Ni2316	231.604	Multiple	Standards	1545.98	-.323092	07/31/03 06:52:30
Se1960	196.021	Multiple	Standards	12951.6	16.6714	07/31/03 06:52:30
Se196A	196.022	Multiple	Standards	11423.2	-13.2365	07/31/03 06:52:30
Ag3280	328.068	Multiple	Standards	1352.67	-.086813	07/31/03 06:52:30
Tl1908	190.864	Multiple	Standards	20447.6	4.38897	07/31/03 06:52:30
V_2924	292.402	Multiple	Standards	2634.98	-.523252	07/31/03 06:52:30
Zn2138	213.856	Multiple	Standards	4236.82	-18.6885	07/31/03 06:52:30
Al3082	308.215	Multiple	Standards	38014.8	-997.512	07/31/03 06:52:30
Ca3179	317.933	Multiple	Standards	30841.1	204.224	07/31/03 06:52:30
Fe2714	271.441	Multiple	Standards	43039.6	19.3929	07/31/03 06:52:30
Mg2790	279.079	Multiple	Standards	56067.1	-3.91061	07/31/03 06:52:30
Mn2576	257.610	Multiple	Standards	489.790	-.152377	07/31/03 06:52:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Ti3349	334.941	Multiple	Standards	567.556	-30.6263	07/31/03 06:52:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699001

Run Name :
Filename : tr211962

Injected : 31-JUL-2003 06:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.4000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	507.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1006.000	ug/L	1	5	
Lead	500.0000	505.0000	ug/L	1	5	
Magnesium	2000.000	2021.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	505.0000	ug/L	1	5	
Selenium	500.0000	505.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699002

Run Name :
Filename : tr211963

Injected : 31-JUL-2003 07:16
Caltpe :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	464.9000	ug/L	-7	10	
Antimony	500.0000	535.0000	ug/L	7	10	
Arsenic	250.0000	245.0000	ug/L	-2	10	
Barium	500.0000	486.0000	ug/L	-3	10	
Beryllium	50.00000	50.00000	ug/L	0	10	
Cadmium	50.00000	47.70000	ug/L	-5	10	
Calcium	1000.000	1027.000	ug/L	3	10	
Chromium	100.0000	98.90000	ug/L	-1	10	
Cobalt	250.0000	245.0000	ug/L	-2	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	479.0000	ug/L	-4	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	995.1000	ug/L	0	10	
Manganese	50.00000	49.10000	ug/L	-2	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	248.0000	ug/L	-1	10	
Selenium	250.0000	243.0000	ug/L	-3	10	
Silver	50.00000	50.50000	ug/L	1	10	
Thallium	250.0000	228.0000	ug/L	-9	10	
Titanium	500.0000	504.0000	ug/L	1	10	
Vanadium	250.0000	246.0000	ug/L	-2	10	
Zinc	50.00000	48.00000	ug/L	-4	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699004

Run Name :
Filename : tr211965

Injected : 31-JUL-2003 07:35
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	100.4000	ug/L	0	50	
Antimony	60.00000	70.80000	ug/L	18	50	
Arsenic	5.000000	4.080000	ug/L	-18	50	
Barium	10.00000	9.650000	ug/L	-4	50	
Beryllium	2.000000	1.570000	ug/L	-22	50	
Cadmium	5.000000	4.390000	ug/L	-12	50	
Chromium	10.00000	8.720000	ug/L	-13	50	
Cobalt	20.00000	19.10000	ug/L	-5	50	
Copper	10.00000	10.80000	ug/L	8	50	
Iron	100.0000	77.99000	ug/L	-22	50	
Lead	3.000000	2.920000	ug/L	-3	50	
Manganese	10.00000	9.810000	ug/L	-2	50	
Molybdenum	20.00000	16.90000	ug/L	-16	50	
Nickel	20.00000	18.80000	ug/L	-6	50	
Selenium	5.000000	7.220000	ug/L	44	50	
Silver	5.000000	4.080000	ug/L	-18	50	
Thallium	5.000000	6.350000	ug/L	27	50	
Vanadium	10.00000	10.00000	ug/L	0	50	
Zinc	20.00000	20.30000	ug/L	2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699014

Run Name :
Filename : tr211976

Injected : 31-JUL-2003 08:35
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	482.5000	ug/L	-4		10	
Antimony		500.0000	489.0000	ug/L	-2		10	
Arsenic		250.0000	260.0000	ug/L	4		10	
Barium		500.0000	502.0000	ug/L	0		10	
Beryllium		50.00000	51.50000	ug/L	3		10	
Cadmium		50.00000	50.70000	ug/L	1		10	
Calcium		1000.000	1053.000	ug/L	5		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	253.0000	ug/L	1		10	
Copper		100.0000	106.0000	ug/L	6		10	
Iron		500.0000	501.6000	ug/L	0		10	
Lead		250.0000	239.0000	ug/L	-4		10	
Magnesium		1000.000	1030.000	ug/L	3		10	
Manganese		50.00000	50.40000	ug/L	1		10	
Molybdenum		500.0000	485.0000	ug/L	-3		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	248.0000	ug/L	-1		10	
Silver		50.00000	51.10000	ug/L	2		10	
Thallium		250.0000	244.0000	ug/L	-2		10	
Titanium		500.0000	516.0000	ug/L	3		10	
Vanadium		250.0000	253.0000	ug/L	1		10	
Zinc		50.00000	51.70000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699026

Run Name :
Filename : tr211988

Injected : 31-JUL-2003 09:35
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	757.4000	ug/L	1	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	745.0000	ug/L	-1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1552.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	793.6000	ug/L	6	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1547.000	ug/L	3	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699038

Run Name :
Filename : tr212000

Injected : 31-JUL-2003 10:38
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	259.6000	ug/L	4	10	
Antimony		250.0000	275.0000	ug/L	10	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	252.0000	ug/L	1	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.00000	ug/L	0	10	
Calcium		500.0000	517.0000	ug/L	3	10	
Chromium		50.00000	51.30000	ug/L	3	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	54.90000	ug/L	10	10	
Iron		250.0000	273.7000	ug/L	9	10	
Lead		125.0000	130.0000	ug/L	4	10	
Magnesium		500.0000	519.5000	ug/L	4	10	
Manganese		25.00000	25.80000	ug/L	3	10	
Molybdenum		250.0000	254.0000	ug/L	2	10	
Nickel		125.0000	128.0000	ug/L	2	10	
Selenium		125.0000	130.0000	ug/L	4	10	
Silver		25.00000	25.40000	ug/L	2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	266.0000	ug/L	6	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.40000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699050

Run Name :
Filename : tr212012

Injected : 31-JUL-2003 11:45
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	506.4000	ug/L	1		10	
Antimony		500.0000	460.0000	ug/L	-8		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	499.0000	ug/L	0		10	
Beryllium		50.00000	51.70000	ug/L	3		10	
Cadmium		50.00000	49.60000	ug/L	-1		10	
Calcium		1000.000	960.6000	ug/L	-4		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	250.0000	ug/L	0		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	475.4000	ug/L	-5		10	
Lead		250.0000	245.0000	ug/L	-2		10	
Magnesium		1000.000	1011.000	ug/L	1		10	
Manganese		50.00000	48.90000	ug/L	-2		10	
Molybdenum		500.0000	482.0000	ug/L	-4		10	
Nickel		250.0000	255.0000	ug/L	2		10	
Selenium		250.0000	250.0000	ug/L	0		10	
Silver		50.00000	50.20000	ug/L	0		10	
Thallium		250.0000	238.0000	ug/L	-5		10	
Titanium		500.0000	510.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.00000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699062

Run Name :
Filename : tr212024

Injected : 31-JUL-2003 12:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	757.5000	ug/L	1	10	
Antimony		750.0000	774.0000	ug/L	3	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	77.60000	ug/L	3	10	
Cadmium		75.00000	75.60000	ug/L	1	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	731.4000	ug/L	-2	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1577.000	ug/L	5	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	739.0000	ug/L	-1	10	
Nickel		375.0000	383.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	72.90000	ug/L	-3	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	757.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	77.10000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699074

Run Name :
Filename : tr212036

Injected : 31-JUL-2003 13:42
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	506.8000	ug/L	1	10	
Antimony		500.0000	504.0000	ug/L	1	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	926.8000	ug/L	-7	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	457.3000	ug/L	-9	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	985.0000	ug/L	-2	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699084

Run Name :
Filename : tr212046

Injected : 31-JUL-2003 14:29
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	795.5000	ug/L	6	10	
Antimony		750.0000	790.0000	ug/L	5	10	
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	74.20000	ug/L	-1	10	
Calcium		1500.000	1464.000	ug/L	-2	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	729.5000	ug/L	-3	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	71.40000	ug/L	-5	10	
Molybdenum		750.0000	729.0000	ug/L	-3	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	374.0000	ug/L	0	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	355.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.30000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699096

Run Name :
Filename : tr212058

Injected : 31-JUL-2003 15:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	537.7000	ug/L	8		10	
Antimony		500.0000	467.0000	ug/L	-7		10	
Arsenic		250.0000	259.0000	ug/L	4		10	
Barium		500.0000	496.0000	ug/L	-1		10	
Beryllium		50.00000	51.60000	ug/L	3		10	
Cadmium		50.00000	50.50000	ug/L	1		10	
Calcium		1000.000	911.5000	ug/L	-9		10	
Chromium		100.0000	98.70000	ug/L	-1		10	
Cobalt		250.0000	245.0000	ug/L	-2		10	
Copper		100.0000	97.30000	ug/L	-3		10	
Iron		500.0000	524.0000	ug/L	5		10	
Lead		250.0000	240.0000	ug/L	-4		10	
Magnesium		1000.000	993.8000	ug/L	-1		10	
Manganese		50.00000	47.90000	ug/L	-4		10	
Molybdenum		500.0000	481.0000	ug/L	-4		10	
Nickel		250.0000	254.0000	ug/L	2		10	
Selenium		250.0000	244.0000	ug/L	-2		10	
Silver		50.00000	48.40000	ug/L	-3		10	
Thallium		250.0000	242.0000	ug/L	-3		10	
Titanium		500.0000	509.0000	ug/L	2		10	
Vanadium		250.0000	241.0000	ug/L	-4		10	
Zinc		50.00000	51.90000	ug/L	4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699108

Run Name :
Filename : tr212070

Injected : 31-JUL-2003 16:08
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	510.2000	ug/L	2	10	
Antimony		500.0000	476.0000	ug/L	-5	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	1000.000	ug/L	0	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	546.6000	ug/L	9	10	
Lead		250.0000	236.0000	ug/L	-6	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	49.10000	ug/L	-2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.10000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699120

Run Name :
Filename : tr212082

Injected : 31-JUL-2003 17:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	773.1000	ug/L	3	10	
Antimony		750.0000	826.0000	ug/L	10	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.70000	ug/L	2	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1456.000	ug/L	-3	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	795.2000	ug/L	6	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	71.80000	ug/L	-4	10	
Thallium		375.0000	370.0000	ug/L	-1	10	
Titanium		750.0000	756.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	75.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699132

Run Name :
Filename : tr212095

Injected : 31-JUL-2003 18:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.1000	ug/L	2	10	
Antimony		750.0000	768.0000	ug/L	2	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1508.000	ug/L	1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	748.4000	ug/L	0	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1576.000	ug/L	5	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	709.0000	ug/L	-5	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	365.0000	ug/L	-3	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699139

Run Name :
Filename : tr212103

Injected : 31-JUL-2003 19:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	777.1000	ug/L	4		10	
Antimony		750.0000	813.0000	ug/L	8		10	
Arsenic		375.0000	373.0000	ug/L	-1		10	
Barium		750.0000	725.0000	ug/L	-3		10	
Beryllium		75.00000	74.70000	ug/L	0		10	
Cadmium		75.00000	72.50000	ug/L	-3		10	
Calcium		1500.000	1430.000	ug/L	-5		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	363.0000	ug/L	-3		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	717.1000	ug/L	-4		10	
Lead		375.0000	347.0000	ug/L	-7		10	
Magnesium		1500.000	1492.000	ug/L	-1		10	
Manganese		75.00000	72.40000	ug/L	-3		10	
Molybdenum		750.0000	719.0000	ug/L	-4		10	
Nickel		375.0000	367.0000	ug/L	-2		10	
Selenium		375.0000	371.0000	ug/L	-1		10	
Silver		75.00000	72.70000	ug/L	-3		10	
Thallium		375.0000	343.0000	ug/L	-9		10	
Titanium		750.0000	736.0000	ug/L	-2		10	
Vanadium		375.0000	364.0000	ug/L	-3		10	
Zinc		75.00000	74.30000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699003
Filename: tr211964

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 31-JUL-2003 07:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[6.6100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1390]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	[29.600]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4150]	10.00000	ug/L	<RL	
Copper	[1.0600]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.2460]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	[0.0200]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.0480]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699015
Filename: tr211977

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 08:43

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[19.200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2730]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0330]	5.000000	ug/L	<RL	
Calcium	[78.970]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[2.9200]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.7400]	3.000000	ug/L	<RL	
Magnesium	[0.1579]	500.0000	ug/L	<RL	
Manganese	[0.0900]	10.00000	ug/L	<RL	
Molybdenum	[4.5700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[4.1200]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.4650]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699027
Filename: tr211989

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 09:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[0.1360]	5.000000	ug/L	<	RL
Barium	[0.0950]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.1650]	5.000000	ug/L	<	RL
Calcium	[75.650]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.2480]	10.00000	ug/L	<	RL
Copper	[2.9800]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.8800]	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.0830]	10.00000	ug/L	<	RL
Molybdenum	[0.3940]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.5000]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.4000]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699039
Filename: tr212001

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 10:55

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1680]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.6420]	10.00000	ug/L	<RL	
Copper	[2.6400]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[1.4900]	20.00000	ug/L	<RL	
Nickel	[0.0340]	20.00000	ug/L	<RL	
Selenium	[2.0000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.9900]	10.00000	ug/L	<RL	
Vanadium	[0.0250]	10.00000	ug/L	<RL	
Zinc	[1.5900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699051
Filename: tr212013

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 11:52

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[19.570]	100.0000	ug/L	<RL	
Antimony	[3.7000]	60.00000	ug/L	<RL	
Arsenic	[2.5100]	5.000000	ug/L	<RL	
Barium	[0.0900]	10.00000	ug/L	<RL	
Beryllium	[0.7220]	2.000000	ug/L	<RL	
Cadmium	[0.2190]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4420]	10.00000	ug/L	<RL	
Copper	[1.4800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0110]	10.00000	ug/L	<RL	
Molybdenum	[2.3800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.3100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.9630]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699063
Filename: tr212025

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 12:43

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[43.430]	100.0000	ug/L	<RL	
Antimony	[4.9800]	60.00000	ug/L	<RL	
Arsenic	[2.0200]	5.000000	ug/L	<RL	
Barium	[0.1570]	10.00000	ug/L	<RL	
Beryllium	[1.5000]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2540]	10.00000	ug/L	<RL	
Copper	[0.9300]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.7300]	3.000000	ug/L	<RL	
Magnesium	[15.600]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[5.4100]	20.00000	ug/L	<RL	
Nickel	[0.1520]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1540]	5.000000	ug/L	<RL	
Thallium	[4.1100]	5.000000	ug/L	<RL	
Titanium	[3.6600]	10.00000	ug/L	<RL	
Vanadium	[0.0370]	10.00000	ug/L	<RL	
Zinc	[1.8100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699075
Filename: tr212037

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 13:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[24.400]	60.00000	ug/L	<RL	
Arsenic	[0.3090]	5.000000	ug/L	<RL	
Barium	[0.1530]	10.00000	ug/L	<RL	
Beryllium	[0.0200]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.5926]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3570]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[2.9780]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[6.4100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.8400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.2000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699085
Filename: tr212047

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 14:34

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[44.790]	100.0000	ug/L	<RL	
Antimony	[9.8400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1410]	10.00000	ug/L	<RL	
Beryllium	[0.9540]	2.000000	ug/L	<RL	
Cadmium	[0.4350]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.5570]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.400]	100.0000	ug/L	<RL	
Lead	[0.3050]	3.000000	ug/L	<RL	
Magnesium	[15.400]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.1300]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8700]	5.000000	ug/L	<RL	
Titanium	[4.3700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.7500]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699097
Filename: tr212059

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 15:24

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[71.800]	100.0000	ug/L	<	RL
Antimony	[11.400]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.2800]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.4050]	5.000000	ug/L	<	RL
Calcium	[5.9240]	500.0000	ug/L	<	RL
Chromium	[0.3530]	10.00000	ug/L	<	RL
Cobalt	[0.6800]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[26.160]	100.0000	ug/L	<	RL
Lead	[2.7700]	3.000000	ug/L	<	RL
Magnesium	[9.3990]	500.0000	ug/L	<	RL
Manganese	[0.4530]	10.00000	ug/L	<	RL
Molybdenum	[7.7700]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[0.1980]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[7.2900]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[2.2800]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699109
Filename: tr212071

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 16:18

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[5.9670]	100.0000	ug/L	<RL	
Antimony	[49.100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2430]	10.00000	ug/L	<RL	
Beryllium	[0.0300]	2.000000	ug/L	<RL	
Cadmium	[0.1220]	5.000000	ug/L	<RL	
Calcium	[1.3260]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[1.0600]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.1430]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.4370]	500.0000	ug/L	<RL	
Manganese	[0.2190]	10.00000	ug/L	<RL	
Molybdenum	[2.9100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.4300]	5.000000	ug/L	<RL	
Silver	[0.5470]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.6090]	10.00000	ug/L	<RL	
Vanadium	[0.1360]	10.00000	ug/L	<RL	
Zinc	[2.5200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699121
Filename: tr212083

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 17:07

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[29.590]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.4750]	5.000000	ug/L	<RL		
Barium	[0.2730]	10.00000	ug/L	<RL		
Beryllium	[0.9160]	2.000000	ug/L	<RL		
Cadmium	[0.1030]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2520]	10.00000	ug/L	<RL		
Cobalt	[0.1530]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[17.730]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[8.4290]	500.0000	ug/L	<RL		
Manganese	[0.3260]	10.00000	ug/L	<RL		
Molybdenum	[4.2500]	20.00000	ug/L	<RL		
Nickel	[0.1990]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.5260]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.8200]	10.00000	ug/L	<RL		
Vanadium	[0.1360]	10.00000	ug/L	<RL		
Zinc	[2.7100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699133
Filename: tr212096

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 18:37

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[13.700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1430]	10.00000	ug/L	<RL	
Beryllium	[0.1250]	2.000000	ug/L	<RL	
Cadmium	[0.3880]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2760]	10.00000	ug/L	<RL	
Cobalt	[0.9370]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[17.740]	500.0000	ug/L	<RL	
Manganese	[0.2150]	10.00000	ug/L	<RL	
Molybdenum	[0.6220]	20.00000	ug/L	<RL	
Nickel	[0.0350]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[1.3600]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[9.5900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[8.9100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699140
Filename: tr212104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 19:15

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[77.770]	100.0000	ug/L	<RL		
Antimony	[44.800]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9650]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[10.160]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[28.760]	500.0000	ug/L	<RL		
Manganese	[0.3540]	10.00000	ug/L	<RL		
Molybdenum	[3.5000]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[7.5600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[6.2600]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699005

Run Name :
Filename : tr211966

Injected : 31-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	498200.0	ug/L	0		
Antimony	500.0000	511.0000	ug/L	2	20	
Arsenic	500.0000	529.0000	ug/L	6	20	
Barium	500.0000	491.0000	ug/L	-2	20	
Beryllium	500.0000	512.0000	ug/L	2	20	
Cadmium	1000.000	944.0000	ug/L	-6	20	
Calcium	500000.0	484000.0	ug/L	-3		
Chromium	500.0000	481.0000	ug/L	-4	20	
Cobalt	500.0000	481.0000	ug/L	-4	20	
Copper	500.0000	530.0000	ug/L	6	20	
Iron	200000.0	187700.0	ug/L	-6		
Lead	1000.000	833.0000	ug/L	-17	20	
Magnesium	500000.0	523000.0	ug/L	5		
Manganese	500.0000	497.0000	ug/L	-1	20	
Molybdenum	500.0000	456.0000	ug/L	-9	20	
Nickel	1000.000	1030.000	ug/L	3	20	
Selenium	500.0000	492.0000	ug/L	-2	20	
Silver	1000.000	1050.000	ug/L	5	20	
Thallium	500.0000	456.0000	ug/L	-9	20	
Titanium	20000.00	2040.000	ug/L	-90		
Vanadium	500.0000	496.0000	ug/L	-1	20	
Zinc	1000.000	998.0000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699083

Run Name :
Filename : tr212045

Injected : 31-JUL-2003 14:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	509200.0	ug/L	2			
Antimony	500.0000	490.0000	ug/L	-2	20		
Arsenic	500.0000	559.0000	ug/L	12	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	506.0000	ug/L	1	20		
Cadmium	1000.000	1000.000	ug/L	0	20		
Calcium	500000.0	455700.0	ug/L	-9			
Chromium	500.0000	491.0000	ug/L	-2	20		
Cobalt	500.0000	490.0000	ug/L	-2	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	181500.0	ug/L	-9			
Lead	1000.000	878.0000	ug/L	-12	20		
Magnesium	500000.0	517600.0	ug/L	4			
Manganese	500.0000	487.0000	ug/L	-3	20		
Molybdenum	500.0000	481.0000	ug/L	-4	20		
Nickel	1000.000	1060.000	ug/L	6	20		
Selenium	500.0000	520.0000	ug/L	4	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	494.0000	ug/L	-1	20		
Titanium	20000.00	2080.000	ug/L	-90			
Vanadium	500.0000	499.0000	ug/L	0	20		
Zinc	1000.000	1040.000	ug/L	4	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699138

Run Name :
Filename : tr212101

Injected : 31-JUL-2003 18:56
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	494800.0	ug/L	-1		
Antimony	500.0000	496.0000	ug/L	-1	20	
Arsenic	500.0000	600.0000	ug/L	20	20	
Barium	500.0000	534.0000	ug/L	7	20	
Beryllium	500.0000	547.0000	ug/L	9	20	
Cadmium	1000.000	1110.000	ug/L	11	20	
Calcium	500000.0	521800.0	ug/L	4		
Chromium	500.0000	543.0000	ug/L	9	20	
Cobalt	500.0000	537.0000	ug/L	7	20	
Copper	500.0000	560.0000	ug/L	12	20	
Iron	200000.0	213000.0	ug/L	7		
Lead	1000.000	1000.000	ug/L	0	20	
Magnesium	500000.0	583000.0	ug/L	17		
Manganese	500.0000	551.0000	ug/L	10	20	
Molybdenum	500.0000	528.0000	ug/L	6	20	
Nickel	1000.000	1200.000	ug/L	20	20	
Selenium	500.0000	573.0000	ug/L	15	20	
Silver	1000.000	963.0000	ug/L	-4	20	
Thallium	500.0000	536.0000	ug/L	7	20	
Titanium	20000.00	2220.000	ug/L	-89		
Vanadium	500.0000	549.0000	ug/L	10	20	
Zinc	1000.000	1110.000	ug/L	11	20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
001	tr211962	CS				31-JUL-2003	06:59 1.0	1.0				1		
002	tr211963	ICV				31-JUL-2003	07:16 1.0	1.0				2		
003	tr211964	ICB				31-JUL-2003	07:21 1.0	1.0						
004	tr211965	CRI				31-JUL-2003	07:35 1.0	1.0				3		
005	tr211966	ICSAB				31-JUL-2003	07:45 1.0	1.0				4		4:MG=523000
006	tr211967	BLANK	QC220785	83303	Soil	31-JUL-2003	07:50 1.0	50.0			2			
007	tr211968	BS	QC220786	83303	Soil	31-JUL-2003	07:57 1.0	50.0						
008	tr211969	BSD	QC220787	83303	Soil	31-JUL-2003	08:01 1.0	50.0						
009	tr211970	MSS	166620-002	83303	Soil	31-JUL-2003	08:06 1.0	47.39336	4					4:FE=273900
010	tr211971	SER	QC220790	83303	Soil	31-JUL-2003	08:12 5.0	47.39336	2					
011	tr211972	MS	QC220788	83303	Soil	31-JUL-2003	08:15 1.0	41.66667		1				5:FE=318300
012	tr211973	MSD	QC220789	83303	Soil	31-JUL-2003	08:19 1.0	49.75124		1				5:FE=270800
013	tr211974	SAMPLE	166611-001	83303	Soil	31-JUL-2003	08:25 1.0	48.30918						1:AL=112300
014	tr211976	CCV				31-JUL-2003	08:35 1.0	1.0				5		
015	tr211977	CCB				31-JUL-2003	08:43 1.0	1.0						
016	tr211978	SAMPLE	166611-002	83303	Soil	31-JUL-2003	08:47 1.0	45.66210						1:AL=118400
017	tr211979	SAMPLE	166611-003	83303	Soil	31-JUL-2003	08:51 1.0	48.07692						2:AL=132200
018	tr211980	SAMPLE	166611-004	83303	Soil	31-JUL-2003	08:55 1.0	48.07692						3:FE=191000
019	tr211981	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:01 1.0	45.24887						5:CA=256000
020	tr211982	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:05 1.0	312.50						
021	tr211983	SAMPLE	166616-003	83303	Miscel	31-JUL-2003	09:09 1.0	222.2222						
022	tr211984	SAMPLE	166620-003	83303	Soil	31-JUL-2003	09:16 1.0	50.0						4:FE=344300
023	tr211985	SAMPLE	166620-004	83303	Soil	31-JUL-2003	09:20 1.0	45.24887						5:FE=435400
024	tr211986	SAMPLE	166620-005	83303	Soil	31-JUL-2003	09:24 1.0	49.01961						4:FE=338100
025	tr211987	SAMPLE	166620-006	83303	Soil	31-JUL-2003	09:28 1.0	43.47826						5:FE=405100
026	tr211988	CCV				31-JUL-2003	09:35 1.0	1.0				6		
027	tr211989	CCB				31-JUL-2003	09:47 1.0	1.0						
028	tr211990	SER	QC220622	83259	Soil	31-JUL-2003	09:51 5.0	41.49378		1				
029	tr211991	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:55 1.0	45.24887	1					5:CA=249900
030	tr211992	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:59 1.0	312.50						
031	tr211993	SAMPLE	166620-008	83303	Soil	31-JUL-2003	10:03 1.0	40.65041						4:FE=409200
032	tr211994	SAMPLE	166620-009	83303	Soil	31-JUL-2003	10:07 1.0	46.08295						4:FE=463500

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: Me Wu Date: 7/6/03
Page 1 of 5

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr211995	SAMPLE	166620-010	83303	Soil	31-JUL-2003 10:11	1.0	46.29630				3:FE=577200	
034	tr211996	SAMPLE	166620-011	83303	Soil	31-JUL-2003 10:15	1.0	43.10345				4:FE=638600	
035	tr211997	SAMPLE	166620-012	83303	Soil	31-JUL-2003 10:19	1.0	40.16064				3:FE=710000	
036	tr211998	SAMPLE	166620-013	83303	Soil	31-JUL-2003 10:22	1.0	48.54369	1			3:FE=476600	
037	tr211999	SAMPLE	166620-014	83303	Soil	31-JUL-2003 10:26	1.0	39.06250				3:FE=635500	
038	tr212000	CCV				31-JUL-2003 10:38	1.0	1.0				7	
039	tr212001	CCB				31-JUL-2003 10:55	1.0	1.0					
040	tr212002	SAMPLE	166620-010	83303	Soil	31-JUL-2003 11:02	1.0	46.29630				3:FE=585500	
041	tr212003	SAMPLE	166620-013	83303	Soil	31-JUL-2003 11:06	1.0	48.54369				3:FE=481700	
042	tr212004	MS	QC220620	83259	Soil	31-JUL-2003 11:10	1.0	38.75969				2:FE=218200	
043	tr212005	MSD	QC220621	83259	Soil	31-JUL-2003 11:14	1.0	48.07692				2:FE=207400	
044	tr212006	SAMPLE	166561-005	83259	Soil	31-JUL-2003 11:17	1.0	46.08295				3:FE=201100	
045	tr212007	SAMPLE	166561-016	83259	Soil	31-JUL-2003 11:21	1.0	48.07692	2			1:FE=169800	
046	tr212008	BLANK	QC220254	83173	Water	31-JUL-2003 11:26	1.0	1.0					
047	tr212009	BS	QC220255	83173	Water	31-JUL-2003 11:30	1.0	1.0				8	
048	tr212010	BSD	QC220256	83173	Water	31-JUL-2003 11:34	1.0	1.0				3	
049	tr212011	BLANK	QC220254	83173	Water	31-JUL-2003 11:41	1.0	1.0					
050	tr212012	CCV				31-JUL-2003 11:45	1.0	1.0				5	
051	tr212013	CCB				31-JUL-2003 11:52	1.0	1.0					
052	tr212014	MSS	166504-001	83173	Water	31-JUL-2003 12:00	1.0	1.0	1				
053	tr212015	SER	QC220259	83173	Water	31-JUL-2003 12:04	5.0	1.0					
054	tr212016	MSS	166504-001	83173	Water	31-JUL-2003 12:08	1.0	1.0					
055	tr212017	MS	QC220257	83173	Water	31-JUL-2003 12:11	1.0	1.0					
056	tr212018	MSD	QC220258	83173	Water	31-JUL-2003 12:15	1.0	1.0					
057	tr212019	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:18	1.0	1.0	1			2:CA=700700	
058	tr212020	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:22	1.0	1.0				2:CA=689600	
059	tr212021	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:25	1.0	1.0	2			2:MG=616900	
060	tr212022	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:29	1.0	1.0	2			2:MG=611300	
061	tr212023	SAMPLE	166504-002	83173	Water	31-JUL-2003 12:32	1.0	1.0	2				
062	tr212024	CCV				31-JUL-2003 12:37	1.0	1.0				6	
063	tr212025	CCB				31-JUL-2003 12:43	1.0	1.0					
064	tr212026	SAMPLE	166504-003	83173	Water	31-JUL-2003 12:47	1.0	1.0					

Stds used: 1=03WSI109 2=03WSI149 3=03WS0897 4=03WSI089 5=03WSI150 6=03WSI151 7=03WSI152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: McV Date: 7/9/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212027	SAMPLE	166504-004	83173	Water	31-JUL-2003 12:50	1.0	1.0	3			2:MG=1416000	
066	tr212028	BLANK	QC220752	83297	Soil	31-JUL-2003 12:54	1.0	50.0	1				
067	tr212029	BS	QC220753	83297	Soil	31-JUL-2003 12:57	1.0	50.0					
068	tr212030	BSD	QC220754	83297	Soil	31-JUL-2003 13:01	1.0	50.0					
069	tr212031	MSS	166603-001	83297	Soil	31-JUL-2003 13:04	1.0	43.29004	4			4:MG=1632000	
070	tr212032	MS	QC220755	83297	Soil	31-JUL-2003 13:08	1.0	46.51163	1			4:MG=1487000	
071	tr212033	MSD	QC220756	83297	Soil	31-JUL-2003 13:11	1.0	48.78049	2			4:MG=1256000	
072	tr212034	SAMPLE	166603-002	83297	Soil	31-JUL-2003 13:15	1.0	42.91845				6:MG=2059000	
073	tr212035	SAMPLE	166603-003	83297	Soil	31-JUL-2003 13:18	1.0	50.0				6:FE=1948000	
074	tr212036	CCV				31-JUL-2003 13:42	1.0	1.0				5	
075	tr212037	CCB				31-JUL-2003 13:47	1.0	1.0					
076	tr212038	BLANK	QC220782	83302	Water	31-JUL-2003 13:58	1.0	1.0					
077	tr212039	BS	QC220783	83302	Water	31-JUL-2003 14:01	1.0	1.0					
078	tr212040	BSD	QC220784	83302	Water	31-JUL-2003 14:05	1.0	1.0					
079	tr212041	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:08	1.0	1.0	1				
080	tr212042	SAMPLE	166620-007	83302	Water	31-JUL-2003 14:12	1.0	1.0					
081	tr212043	SAMPLE	166585-005	83297	Miscel	31-JUL-2003 14:15	1.0	44.24779					
082	tr212044	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:19	1.0	1.0					
083	tr212045	ICSAB				31-JUL-2003 14:23	1.0	1.0				4	
084	tr212046	CCV				31-JUL-2003 14:29	1.0	1.0				6	
085	tr212047	CCB				31-JUL-2003 14:34	1.0	1.0					
086	tr212048	SAMPLE	166398-008	83327	Water	31-JUL-2003 14:38	1.0	1.0					
087	tr212049	BLANK	QC220746	83296	Soil	31-JUL-2003 14:42	1.0	50.0					
088	tr212050	BS	QC220747	83296	Soil	31-JUL-2003 14:49	1.0	50.0					
089	tr212051	BSD	QC220748	83296	Soil	31-JUL-2003 14:53	1.0	50.0					
090	tr212052	MSS	166561-022	83296	Soil	31-JUL-2003 14:57	1.0	42.91845	4			4:FE=236000	
091	tr212053	SEB	QC220751	83296	Soil	31-JUL-2003 15:00	5.0	42.91845	1	2			
092	tr212054	MS	QC220749	83296	Soil	31-JUL-2003 15:04	1.0	38.91051				4:CA=224300	
093	tr212055	MSD	QC220750	83296	Soil	31-JUL-2003 15:07	1.0	43.29004				2:FE=188900	
094	tr212056	SAMPLE	166561-024	83296	Soil	31-JUL-2003 15:11	1.0	43.29004				3:FE=232700	
095	tr212057	SAMPLE	166561-025	83296	Soil	31-JUL-2003 15:15	1.0	44.05286				4:FE=280400	
096	tr212058	CCV				31-JUL-2003 15:20	1.0	1.0				5	

Stds used: 1=03WSI109 2=03WSI149 3=03WSO897 4=03WSI089 5=03WSI150 6=03WSI151 7=03WSI152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: Merck Date: 7/31/03
Page 3 of 5

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's	Used	>LR
097	tr212059	CCB				31-JUL-2003	15:24	1.0	1.0					
098	tr212060	SAMPLE	166561-026	83296	Soil	31-JUL-2003	15:31	1.0	47.16981					3:FE=258300
099	tr212061	SAMPLE	166561-027	83296	Soil	31-JUL-2003	15:34	1.0	44.44444					3:FE=246000
100	tr212062	SAMPLE	166561-031	83296	Soil	31-JUL-2003	15:38	1.0	46.72897					3:FE=231100
101	tr212063	SAMPLE	166561-032	83296	Soil	31-JUL-2003	15:41	1.0	46.29630					3:FE=189300
102	tr212064	SAMPLE	166561-033	83296	Soil	31-JUL-2003	15:45	1.0	50.0					3:FE=194900
103	tr212065	SAMPLE	166561-034	83296	Soil	31-JUL-2003	15:48	1.0	44.64286					2:FE=228200
104	tr212066	SAMPLE	166561-036	83296	Soil	31-JUL-2003	15:51	1.0	39.52569					4:FE=290800
105	tr212067	SAMPLE	166561-037	83296	Soil	31-JUL-2003	15:55	1.0	41.8410					3:FE=238000
106	tr212068	SAMPLE	166561-038	83296	Soil	31-JUL-2003	15:58	1.0	46.94836					2:FE=250000
107	tr212069	SAMPLE	166561-039	83296	Soil	31-JUL-2003	16:02	1.0	46.08295					3:FE=236000
108	tr212070	CCV				31-JUL-2003	16:08	1.0	1.0				5	
109	tr212071	CCB				31-JUL-2003	16:18	1.0	1.0					
110	tr212072	SAMPLE	166398-008	83327	Water	31-JUL-2003	16:24	1.0	1.0					
111	tr212073	PDS	QC220908	83296	Soil	31-JUL-2003	16:28	1.0	42.91845				8 9	4:FE=247209
112	tr212074	SAMPLE	166561-038	83296	Soil	31-JUL-2003	16:31	1.0	46.94836					2:FE=247409
113	tr212075	SAMPLE	166561-040	83296	Soil	31-JUL-2003	16:35	1.0	44.44444					3:FE=251100
114	tr212076	SAMPLE	166561-041	83296	Soil	31-JUL-2003	16:38	1.0	50.0					4:FE=236900
115	tr212077	SAMPLE	166561-043	83296	Soil	31-JUL-2003	16:42	1.0	49.26108					3:FE=210200
116	tr212078	SAMPLE	166561-044	83296	Soil	31-JUL-2003	16:45	1.0	49.50495					3:FE=506800
117	tr212079	SAMPLE	166561-045	83296	Soil	31-JUL-2003	16:49	1.0	45.45455					3:FE=229100
118	tr212080	SAMPLE	166561-046	83296	Soil	31-JUL-2003	16:52	1.0	47.84689					3:FE=217500
119	tr212081	SAMPLE	166561-047	83296	Soil	31-JUL-2003	16:56	1.0	37.17472					3:FE=305300
120	tr212082	CCV				31-JUL-2003	17:01	1.0	1.0				6	
121	tr212083	CCB				31-JUL-2003	17:07	1.0	1.0					
122	tr212084	BLANK	QC220724	83290	Water	31-JUL-2003	17:11	1.0	1.0					
123	tr212085	BS	QC220725	83290	Water	31-JUL-2003	17:17	1.0	1.0					
124	tr212086	BSD	QC220726	83290	Water	31-JUL-2003	17:21	1.0	1.0					
125	tr212087	MSS	166554-002	83290	Water	31-JUL-2003	17:25	1.0	1.0					2:MG=1883000
126	tr212088	SER	QC220729	83290	Water	31-JUL-2003	17:29	5.0	1.0					2:MG=369600
127	tr212089	MSS	166554-002	83290	Water	31-JUL-2003	17:32	1.0	1.0					2:MG=1829000
128	tr212091	MS	QC220727	83290	Water	31-JUL-2003	17:42	1.0	1.0					2:MG=1920000

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SS177 11=03SS17

Analyst: MeVur Date: 7/31/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699

Instrument: MET07

TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used
129	tr212092	MSD	QC220728	83290	Water	31-JUL-2003 17:45	1.0	1.0	1				2:MG=1914000
130	tr212093	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:49	1.0	1.0	1				3:MG=3540000
131	tr212094	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:53	1.0	1.0					3:MG=3536000
132	tr212095	CCV				31-JUL-2003 18:06	1.0	1.0				6	
133	tr212096	CCB				31-JUL-2003 18:37	1.0	1.0					
134	tr212097	SAMPLE	166561-043	83296	Soil	31-JUL-2003 18:40	1.0	49.26108	1				3:FE=245100
135	tr212098	SAMPLE	166561-046	83296	Soil	31-JUL-2003 18:44	1.0	47.84689					3:FE=262000
136	tr212099	MSS	166554-002	83290	Water	31-JUL-2003 18:47	20.0	1.0	3				1:MG=109700
137	tr212100	PDS	QC220938	83290	Water	31-JUL-2003 18:52	1.0	1.0				10 11	2:MG=1947000
138	tr212101	ICSAB				31-JUL-2003 18:56	1.0	1.0				4	4:MG=583000
139	tr212103	CCV				31-JUL-2003 19:08	1.0	1.0				6	
140	tr212104	CCB				31-JUL-2003 19:15	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: McV

Date: 7/31/03

REPORTING SUMMARY FOR 166561 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166561-001	MET07	07/30/03 18:01	1.0		+		+					+	+									+
166561-002	MET07	07/30/03 18:15	1.0		+		+					+	+									+
166561-003	MET07	07/30/03 18:19	1.0		+		+					+	+									+
166561-004	MET07	07/30/03 18:22	1.0		+		+					+	+									+
166561-005	MET07	07/30/03 18:44	1.0				+					+	+									+
166561-005	MET07	07/31/03 11:17	1.0		+																	
166561-006	MET07	07/30/03 18:47	1.0		+		+					+	+									+
166561-007	MET07	07/30/03 18:51	1.0		+		+					+	+									+
166561-008	MET07	07/30/03 18:54	1.0		+		+					+	+									+
166561-009	MET07	07/30/03 18:58	1.0		+		+					+	+									+
166561-010	MET07	07/30/03 19:01	1.0		+		+					+	+									+
166561-011	MET07	07/30/03 19:05	1.0		+		+					+	+									+
166561-012	MET07	07/30/03 19:08	1.0		+		+					+	+									+
166561-013	MET07	07/30/03 19:12	1.0		+		+					+	+									+
166561-014	MET07	07/29/03 08:01	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166561-014	MET07	07/29/03 09:00	10.0										+									
166561-015	MET07	07/30/03 19:15	1.0		+		+					+	+									+
166561-016	MET07	07/30/03 19:37	1.0				+					+	+									+
166561-016	MET07	07/31/03 11:21	1.0		+																	
166561-017	MET07	07/30/03 19:40	1.0		+		+					+	+									+
166561-018	MET07	07/30/03 19:44	1.0		+		+					+	+									+
166561-019	MET07	07/30/03 19:47	1.0		+		+					+	+									+
166561-020	MET07	07/30/03 19:50	1.0		+		+					+	+									+
166561-021	MET07	07/30/03 19:54	1.0		+		+					+	+									+
166561-022	MET07	07/31/03 14:57	1.0		+		+					+	+									+
166561-024	MET07	07/31/03 15:11	1.0		+		+					+	+									+
166561-025	MET07	07/31/03 15:15	1.0		+		+					+	+									+
166561-026	MET07	07/31/03 15:31	1.0		+		+					+	+									+
166561-027	MET07	07/31/03 15:34	1.0		+		+					+	+									+

REPORTING SUMMARY FOR 166561 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166561-029	MET07	07/29/03 08:05	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+
166561-029	MET07	07/29/03 08:13	1.0															+				
166561-029	MET07	07/29/03 09:03	10.0										+									
166561-030	MET07	07/29/03 08:09	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166561-030	MET07	07/29/03 09:07	10.0										+									
166561-031	MET07	07/31/03 15:38	1.0		+		+					+		+								+
166561-032	MET07	07/31/03 15:41	1.0		+		+					+		+								+
166561-033	MET07	07/31/03 15:45	1.0		+		+					+		+								+
166561-034	MET07	07/31/03 15:48	1.0		+		+					+		+								+
166561-036	MET07	07/31/03 15:51	1.0		+		+					+		+								+
166561-037	MET07	07/31/03 15:55	1.0		+		+					+		+								+
166561-038	MET07	07/31/03 15:58	1.0		+		+					+		+								+
166561-038	MET07	07/31/03 16:31	1.0																			
166561-039	MET07	07/31/03 16:02	1.0		+		+					+		+								+
166561-040	MET07	07/31/03 16:35	1.0		+		+					+		+								+
166561-041	MET07	07/31/03 16:38	1.0		+		+					+		+								+
166561-042	MET07	07/29/03 08:42	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166561-042	MET07	07/29/03 09:11	10.0	+									+									
166561-043	MET07	07/31/03 16:42	1.0		+		+					+										+
166561-043	MET07	07/31/03 18:40	1.0											+								
166561-044	MET07	07/31/03 16:45	1.0		+		+					+		+								+
166561-045	MET07	07/31/03 16:49	1.0		+		+					+		+								+
166561-046	MET07	07/31/03 16:52	1.0		+		+					+										+
166561-046	MET07	07/31/03 18:44	1.0											+								
166561-047	MET07	07/31/03 16:56	1.0		+		+					+		+								+
QC220336	MET07	07/28/03 12:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220337	MET07	07/28/03 12:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220338	MET07	07/28/03 12:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220339	MET07	07/28/03 13:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220340	MET07	07/28/03 13:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166561 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
QC220341	MET07	07/28/03 13:00	5.0		+	+	+	+	+	+	+	+			+	+	+		+	+	+	+
QC220341	MET07	07/28/03 13:13	5.0											+				+				
QC220341	MET07	07/29/03 10:09	50.0	+									+									
QC220466	MET07	07/29/03 09:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220617	MET07	07/30/03 17:24	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC220618	MET07	07/30/03 17:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
QC220619	MET07	07/30/03 17:31	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
QC220620	MET07	07/30/03 18:08	1.0			+	+	+	+	+	+	+		+	+	+	+		+		+	+
QC220620	MET07	07/31/03 11:10	1.0		+																	
QC220621	MET07	07/30/03 18:12	1.0			+	+	+	+	+	+	+		+	+	+	+		+		+	+
QC220621	MET07	07/31/03 11:14	1.0		+																	
QC220622	MET07	07/30/03 18:05	5.0		+	+	+	+	+	+	+	+			+	+	+		+		+	+
QC220622	MET07	07/31/03 09:51	5.0											+								
QC220746	MET07	07/31/03 14:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220747	MET07	07/31/03 14:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220748	MET07	07/31/03 14:53	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220749	MET07	07/31/03 15:04	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220750	MET07	07/31/03 15:07	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220751	MET07	07/31/03 15:00	5.0		+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220908	MET07	07/31/03 16:28	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 28-JUL-2003 14:24

Batch Number : 83188
 Date Extracted : 26-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Prep Vol	D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166550-001		Roy F. Weston, Inc. - West	Soil	2.37	g	100	42.1940	1				T26/ICP	mss
166550-002		Roy F. Weston, Inc. - West	Soil	2.33	g	100	42.9184	1				T26/ICP	
166551-003		Treadwell & Rollo	Soil	2.48	g	100	40.3225	1				T26/ICP	
166551-006		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1				T26/ICP	
166551-009		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1				T26/ICP	
166555-021		CH2M HILL Constructors Inc.	Soil	2.27	g	100	44.0528	1				T26/ICP	
166555-022		CH2M HILL Constructors Inc.	Soil	2.24	g	100	44.6428	1				T26/ICP	
166555-023		CH2M HILL Constructors Inc.	Soil	2.14	g	100	46.7289	1				T26/ICP	
166555-024		CH2M HILL Constructors Inc.	Soil	2.23	g	100	44.8430	1				T26/ICP	
166556-001		ConocoPhillips Company	Miscell.	2.06	g	100	48.5436	1				V	
166556-002		ConocoPhillips Company	Miscell.	2.15	g	100	46.5116	1				V	
166556-003		ConocoPhillips Company	Miscell.	2.21	g	100	45.2488	1				TAL/ICP	
166561-014		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				TAL/ICP	
166561-029		Treadwell & Rollo	Soil	2.35	g	100	42.5531	1				TAL/ICP	
166561-030		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				TAL/ICP	
166561-042		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				TAL/ICP	
QC220336	BLANK		Soil	2	g	100	50	1				ICAP	
QC220337	BS		Soil	2	g	100	50	1				ICAP	
QC220338	BSD		Soil	2	g	100	50	1				ICAP	
QC220339	MS		Soil	2.44	g	100	40.9836	1				ICAP	
QC220340	MSD		Soil	2.34	g	100	42.7350	1				ICAP	
QC220341	SER		Soil	2.37	g	100	42.1940	1				ICAP	
QC220466	PDS		Soil	2.37	g	100	42.1940	1				ICAP	

of 166550-001
 of 166550-001
 of 166550-001
 of 166550-001

Prep Chemist: mw for pvr Reviewed By: mw Date: 7/28/03
 Relinquished By: mw Received By: mw Date: 7/28/03

07/24/03

Batch # 8388

ICAP/M 3050

SAMPLE ID	INITIAL (g)	Final Vol (ml)	FILTERED YES/NO	Comments
A 166550 - 001 (NCS)	2.37	100.0	yes	SPIKES
↓ 002	2.33			✓ 0355286 (1.0ml)
166551- 003 comp 12	2.48			✓ 0355287 ↓
↓ 006 45	2.29			
↓ 009 7.8	2.26			
166555- 021 comp	2.27			Reagents
↓ 022 2.24				1:1 HNO ₃ JTBaker #408024/07234
↓ 023 2.14				HNO ₃ JTBaker #405050
↓ 024 2.23				HNO ₃ VWR #42295317
A 166556 - 001 comp	2.00			1:1 HCl JTBaker #412029-072303
↓ 002 2.15				
↓ 003 2.21				
A 166561- 014 2.27				
↓ 029 2.35				
↓ 030 2.06				
↓ 042 2.21				
MS-QC 220336				
✓ BS 220337				
✓ BCD 220338				
✓ MS-6550-001	2.44			
✓ MS-6550-001	2.34			

Continued on Page

Read and Understood By

Patricia Vergara
Signed

07/24/03
Date

316

mw
Signed

7/28/03
Date

Curtis & Tompkins Laboratories

Sample Preparation Summary

29-JUL-2003 18:19

Batch Number : 83259

Date Extracted: 29-JUL-2003

Extracted by : Patricia V. Vergara

Prep Method : 3050

Analysis : N/A

Bgroup : ICAP

Units : g

Clean-up :

Spike #1 ID : 03SS286

Spike #2 ID : 03SS287

Spike #3 ID :

Sample	Type	Client	Matrix	Init Wt	Units	Final Prep Vol	D.F.	Clean pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166561-001		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	mss	
166561-002		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-003		Treadwell & Rollo	Soil	2.66	g	100	37.5939	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-004		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-005		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-006		Treadwell & Rollo	Soil	2.36	g	100	42.3728	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-007		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-008		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-009		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-010		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-011		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-012		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-013		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-015		Treadwell & Rollo	Soil	2.45	g	100	40.8163	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-016		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-017		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-018		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-019		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-020		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-021		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN	BA, CU, PB, SB, ZN		
166561-022		Treadwell & Rollo	Soil	2	g	100	50	1	ICAP	ICAP	ICAP		
QC220617	BLANK												
QC220618	BS		Soil	2	g	100	50	1	1	1	1	ICAP	
QC220619	BSD		Soil	2	g	100	50	1	1	1	1	ICAP	
QC220620	MS	of 166561-001	Soil	2.58	g	100	38.7596	1	1	1	1	ICAP	
QC220621	MSD	of 166561-001	Soil	2.08	g	100	48.0769	1	1	1	1	ICAP	
QC220622	SER	of 166561-001	Soil	2.41	g	100	41.4937	1	1	1	1	ICAP	

Prep Chemist: Patricia Vergara

Reviewed By:

Date:

Relinquished By: Patricia Vergara

Received By:

Date:

PROJECT Soil Digestion.

212-2000-0000 3A 1775

Continued From Page

0

07/29/03

B# 03259

ICHP/3050

Sample

Sample mass(g)

Final vol(ml)

Filtered yes/no

Comments

SPICES

✓ 03SS286 (1.0ML)
✓ 03SS281 ↓

Reagents

1:1 HNO3 JT BAKER #Y08024/071303
HNO3 JT BAKER #Y05050
H2O2 VWR # 42295317
1:1 HCL JT BAKER #Y62024-072207

BIK-JC22047
✓ BS 220618
✓ BSO 220619

✓ 166561-001 MS
✓ .001 MS0
- .001
- .002
- .004
- .005
- .006
- .007
- .008
- .009
- .010
- .011
- .012
- .013
- .015
- .016
- .017
- .018
- .019
- .020
✓ - .021
- .003

A
2.58
2.08
2.41
2.21
2.06
2.17
2.36
2.11
2.23
2.14
2.18
2.02
2.18
2.07
2.45
2.08
2.10
2.09
2.04
2.03
2.09
2.46

100.0

yes

VV

Continued on Page

Read and Understood By

Patricia Vergara

07-29-03 318

7/30/03

Signed

Date

Signed

Date

Curtis & Tompkins Laboratories Sample Preparation Summary 31-JUL-2003 15:07

Batch Number : 83296
 Date Extracted: 30-JUL-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166561-022		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	miss
166561-024		Treadwell & Rollo	Soil	2.31	g	100	43.2900	1				BA, CU, PB, SB, ZN	
166561-025		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				BA, CU, PB, SB, ZN	
166561-026		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166561-027		Treadwell & Rollo	Soil	2.25	g	100	44.4444	1				BA, CU, PB, SB, ZN	
166561-031		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166561-032		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				BA, CU, PB, SB, ZN	
166561-033		Treadwell & Rollo	Soil	2	g	100	50	1				BA, CU, PB, SB, ZN	
166561-034		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				BA, CU, PB, SB, ZN	
166561-036		Treadwell & Rollo	Soil	2.53	g	100	39.5256	1				BA, CU, PB, SB, ZN	
166561-037		Treadwell & Rollo	Soil	2.39	g	100	41.8410	1				BA, CU, PB, SB, ZN	
166561-038		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166561-039		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166561-040		Treadwell & Rollo	Soil	2.25	g	100	44.4444	1				BA, CU, PB, SB, ZN	
166561-041		Treadwell & Rollo	Soil	2	g	100	50	1				BA, CU, PB, SB, ZN	
166561-043		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1				BA, CU, PB, SB, ZN	
166561-044		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166561-045		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				BA, CU, PB, SB, ZN	
166561-046		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166561-047		Treadwell & Rollo	Soil	2.69	g	100	37.1747	1				BA, CU, PB, SB, ZN	
QC220746	BLANK		Soil	2	g	100	50	1				ICAP	
QC220747	BS		Soil	2	g	100	50	1	1	1		ICAP	
QC220748	BSD		Soil	2	g	100	50	1	1	1		ICAP	
QC220749	MS		Soil	2.57	g	100	38.9105	1	1	1		ICAP	
QC220750	MSD		Soil	2.31	g	100	43.2900	1	1	1		ICAP	
QC220751	SER		Soil	2.33	g	100	42.9184	1				ICAP	
QC220908	PDS		Soil	2.33	g	100	42.9184	1				ICAP	

Prep Chemist: *mm forvu*

Reviewed By: *mm*

Date: *7/31/03*

Relinquished By: *mm*

Received By: *mm*

Date: *7/31/03*

7/30/03

B# 83296

ICAR 3050

SampleSample
mass (g)Final
Vol. (ml)Filtered
yes/noComments

BLK QC220746

A

Ø

100.0

yes

SPICES

* 0355286 (1.0ml)

* 0355287

* BS 220747

* B50 220748

* 166961-022 ms

* - 022 ms

ms - 022

- 024

- 025

- 026

- 027

031

032

033

034

036

037

038

039

040

041

043

044

045

046

047

257

231

233

231

227

212

225

214

216

200

224

2.53 ^{vv} 230747

239

213

217

225

200

203

207

220

209

269

Reagents

1:1 HNO3 Y08024-072303

HNO3 Y05050 JTBaker

H2O2 VWR. 42295317

1:1 HCl Y12028-072303

VV 7/30/03

Continued on Page

7/30/03

07/30

D. Vergara

Signed

07/30/03

Date

320

Read and Understood By

MV

Signed

7/31/03

Date

Method Detection Limit Study for EPA 6010B Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	mg/kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	mg/kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	mg/kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	mg/kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	mg/kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	mg/kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	mg/kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	mg/kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	mg/kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	mg/kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	mg/kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	mg/kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	mg/kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	mg/kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc							MDL	Lowest RL units		Flags
	1	2	3	4	5	6	7				
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6150000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg	Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83272
Date: 07/30/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166561-001	15.4451	22.8168	22.7550	99	1
166561-002	15.5062	21.4242	21.3714	99	1
166561-003	15.4189	22.5353	22.4283	98	2
166561-004	15.3568	21.5962	20.4628	82	18
166561-005	15.3319	21.1201	21.0422	99	1
166561-006	4.2173	10.2823	10.1489	98	2
166561-007	15.1924	22.3382	22.0934	97	3
166561-008	15.1681	21.6903	20.8799	88	12
166561-009	15.3439	22.8171	21.8503	87	13
166561-010	15.4665	21.3577	21.2868	99	1
166561-011	15.8240	21.8646	21.7638	98	2
166561-012	15.6052	21.5225	21.4601	99	1
166561-013	15.0756	21.4598	21.4041	99	1
166561-014	11.3807	18.6841	18.5531	98	2
166561-015	15.6004	22.7406	22.4887	96	4
166561-016	16.1171	23.4208	23.3126	99	1
166561-017	15.7480	23.5135	23.3002	97	3
166561-018	11.0599	17.8576	17.6967	98	2
166561-019	15.3703	21.3148	21.0222	95	5
166561-020	15.3790	21.6999	21.5369	97	3
QC220660	15.1302	21.5889	21.5241	99	1
of 166561-001			RPD:	0.2%	17.9%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83272
Date Started: 30-JUL-2003
Batched by : Kirsten Dutcher

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166561-001		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-002		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-003		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-004		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-005		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-006		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-007		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-008		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-009		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-010		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-011		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-012		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-013		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-014		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-015		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-016		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-017		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-018		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-019		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-020		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
QC220660	SDUP	of 166561-001	Soil	MOISTURE	

7/29/03

83272

Sample	Dish#	tare wt	init wt	fin wt	comment
Blank	29	15.5625	-	15.5630	
166561-1	40	15.4451	22.8168	22.7950	
-1 DUP	25	15.1302	21.5889	21.5241	
-2	18	15.5062	21.4242	21.3714	
-3	99	15.4189	22.5353	22.4283	
-4	7CD	15.3568	21.5962	20.4628	
-5	3B1	15.3319	21.1201	21.0422	
-6	YX	4.2173	10.2823	10.1245	
-7	46	15.1924	22.3382	22.0934	
-8	973	15.11081	21.6903	20.8799	
-9	7X	15.3439	22.8171	21.8503	
-10	19	15.4665	21.3577	21.2868	
-11	13D	15.8240	21.8040	21.7638	
-12	9D	15.6052	21.5285	21.4601	
-13	47	15.0750	21.4598	21.4041	
-14	10	11.3807	18.6841	18.5531	
-15	P	15.6004	22.7406	22.4887	
-16	4D	16.1171	23.4208	23.3126	
-17	X	15.7480	23.5135	23.3002	
-18	181	11.0599	17.8576	17.6967	
-19	9A	15.3703	21.3148	21.0222	
-20	23	15.3790	21.6999	21.5369	

Oven temp: 106°C

time in: 3:50 pm

time out: 9:25 a.m. on: 7/30/03

Continued on Page

Read and Understood By

K. Dutch

Signed

7/29/03

Date

328

mu

Signed

7/30/03

Date

Percent Moisture Summary Report

Batch: 83270
 Date: 07/30/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166561-044	4.3195	10.3609	9.6358	88	12
166561-045	15.1859	21.3048	21.0504	96	4
166561-046	15.5756	21.1404	20.6260	91	9
166561-047	15.1896	22.0744	21.2350	88	12
166566-004	12.0652	18.2941	17.6422	90	10
166566-005	15.3672	22.3057	21.9107	94	6
166590-001	15.5512	21.9278	21.8780	99	1
166590-002	11.1941	18.8528	18.8351	100	0
166590-003	15.2848	21.6515	21.6452	100	0
166590-004	15.8919	23.0016	22.9139	99	1
QC220656	15.4595	21.3409	21.2671	99	1
of 166590-004			RPD:	0.0%	1.7%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83270
 Date Started: 30-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166561-044		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-045		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-046		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-047		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166566-004		Treadwell & Rollo	Soil	MOISTURE	01-AUG-2003
166566-005		Treadwell & Rollo	Soil	MOISTURE	01-AUG-2003
166590-001		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-002		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-003		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-004		Innovative Technic	Soil	MOISTURE	30-JUL-2003
QC220656	SDUP	of 166590-004	Soil	MOISTURE	

7/29/03

83270

sample	dish#	tare wt	init wt	fin wt	comment
Blank	11B	4.2260	-	4.2257	
166561-44	10D	4.3195	10.3609	9.6358	
-45	T	15.1859	21.3048	21.0504	
-46	5X	15.5756	21.1404	20.6260	
-47	21X	15.1896	22.0744	21.4350	
166566-4	12A	12.0652	18.2941	17.6422	
-5	42	15.3672	22.3057	21.9107	
166590-1	11	15.5512	21.9278	21.8780	
-2	XE	11.1941	18.8528	18.8351	
-3	6C	15.2848	21.6515	21.6452	
-4	1D	15.8919	23.0016	22.9139	
-4 Dup	C	15.4595	21.3409	21.2671	

Oven temp: 106°C

time in: 4:10pm

time out: 8:45 A.M. on: 7/30/03

Continued on Page

Read and Understood By

K. Dutcher

Signed

7/29/03

Date

331

R. Mennel

Signed

7/30/03

Date

Percent Moisture Summary Report

Batch: 83273
Date: 07/30/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166561-021	15.2671	21.8641	21.6992	98	2
166561-022	15.3178	21.0556	20.7927	95	5
166561-024	15.8125	22.4685	22.2240	96	4
166561-025	15.5525	22.9631	22.6966	96	4
166561-026	15.4244	21.5487	21.2735	96	4
166561-027	10.9903	17.7247	17.4720	96	4
166561-029	15.2827	22.1709	21.8863	96	4
166561-030	15.2786	23.7188	23.1952	94	6
166561-031	15.4599	22.0782	21.6654	94	6
166561-032	15.4270	22.1256	21.6499	93	7
166561-033	15.8243	22.3655	22.0028	94	6
166561-034	10.9899	17.7502	17.4795	96	4
166561-036	11.2192	17.3580	17.1485	97	3
166561-037	15.8214	21.6440	21.3171	94	6
166561-038	10.9461	17.0793	15.9009	81	19
166561-039	15.7851	21.5552	21.3617	97	3
166561-040	15.6784	22.9800	22.5563	94	6
166561-041	15.9975	22.5616	22.3180	96	4
166561-042	15.3793	21.7010	21.4318	96	4
166561-043	10.9736	17.6876	16.8452	87	13
QC220662	15.4348	22.7591	22.5451	97	3
of 166561-021			RPD:	0.4%	15.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83273
 Date Started: 30-JUL-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166561-021		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-022		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-024		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-025		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-026		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-027		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-029		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-030		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-031		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-032		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-033		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-034		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-036		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-037		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-038		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-039		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-040		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-041		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-042		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-043		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
QC220662	SDUP	of 166561-021	Soil	MOISTURE	

7/29/03

83273

Sample	dish#	tare wt	init wt	fin wt	comment
Blank	88	4.3099	-	4.3098	
166561-21	3	15.2671	21.8641	21.6992	
-21 DUP	3E	15.4348	22.7591	22.5451	
-22	17	15.3178	21.0556	20.7927	
-24	III D	15.8125	22.4685	22.2240	
-25	21	15.5525	22.9631	22.6966	
-26	46	15.4244	21.5487	21.2735	
-27	12A	10.9903	17.7247	17.4720	
-29	26	15.2827	22.1709	21.8863	
-30	113A	15.2786	23.7188	23.1952	
-31	000	15.4599	22.0782	21.6654	
-32	238	15.4270	22.1256	21.6499	
-33	6X	15.8243	22.3655	22.0028	
-34	10G	10.9899	17.7502	17.4795	
-36	IIIX	11.2192	17.3580	17.1485	Special pe
-37	LOU	15.8214	21.6440	21.3171	
-38	JED	10.9461	17.0793	15.9009	
-39	X11	15.7851	21.5552	21.3617	Special pr
-40	33	15.6784	22.9800	22.5563	
-41	16D	15.9975	22.5616	22.3180	
-42	4C	15.3793	21.7010	21.4318	
-43	ZAX	10.9736	17.6876	16.8452	

Overtemp: 106°C

time in: 5:00 P.M.

time out: 9:13 A.M. on: 7/30/03

Continued on Page

Read and Understood By

K. Dehman 7/29/03³³⁴

Signed

Date

mu

Signed

7/30/03

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166566

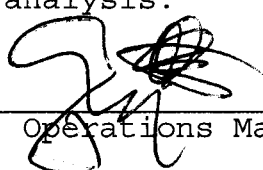
Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

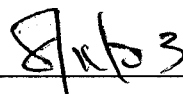
<u>Sample ID</u>	<u>Lab ID</u>
BAPSB03 [0.3]	166566-001
BAPSB03 [1]	166566-002
BAPSB08 [0.3]	166566-003
BAPSB13 [0.3]	166566-004
BAPSB13 [1]	166566-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.


Signature: _____


Operations Manager

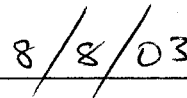
Date: _____



Signature: _____


Project Manager

Date: _____



Laboratory Number: **166566**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/28/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for five soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries for aluminum, iron, magnesium, and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for antimony, magnesium, and nickel were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The serial dilution sample analyzed on 8/1/03 at 12:59 was outside acceptance limits for arsenic and thallium. No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY RECORD

Page 1 of 1

X / 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Firing Ranges

Job Number: 2893.07 J J

Project Manager/Contact: Dorinda Shigman

Samplers: RRR 40J5

Recorder (Signature Required): Blanka Richardy

Turnaround Time 244

[illegible]

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166566 Date Received: 7-28-03 Number of Coolers: 1
Client: Treadwell & Rolfe Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-28-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO ☒

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO ☒

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO ☒

4. Were custody papers dry and intact when received?..... YES ☒ NO ☒

5. Were custody papers filled out properly (ink, signed, etc.)?..... YES ☒ NO ☒

6. Did you sign the custody papers in the appropriate place?..... YES ☒ NO ☒

7. Was project identifiable from custody papers?..... YES ☒ NO ☒

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES ☒ NO ☒

Type of ice: Blue Temperature: 5.0

B. Login Phase

Date Logged In: 7-28-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Describe type of packing in cooler: In ziploc type bags

2. Did all bottles arrive unbroken?..... YES ☒ NO ☒

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... YES ☒ NO ☒

4. Did bottle labels agree with custody papers?..... YES ☒ NO ☒

5. Were appropriate containers used for the tests indicated?..... YES ☒ NO ☒

6. Were correct preservatives added to samples?..... YES ☒ NO ☒

7. Was sufficient amount of sample sent for tests indicated?..... YES ☒ NO ☒

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES ☒ NO ☒

9. Was the client contacted concerning this sample delivery?..... YES ☒ NO ☒

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

**Target Analyte List Metals**

Lab #:	166566	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB13 [0.3]	Batch#:	83337
Lab ID:	166566-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/28/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 10%

Analyte	Result	RL	Diln Fac
Aluminum	7,700	52	10.00
Antimony	ND	3.1	1.000
Arsenic	3.0	0.26	1.000
Barium	98	0.52	1.000
Beryllium	0.37	0.10	1.000
Cadmium	1.7	0.26	1.000
Chromium	57	0.52	1.000
Cobalt	11	1.0	1.000
Copper	19	0.52	1.000
Iron	14,000	52	10.00
Lead	160	0.16	1.000
Magnesium	3,600	26	1.000
Manganese	360	0.52	1.000
Nickel	68	1.0	1.000
Selenium	ND	0.26	1.000
Silver	ND	0.26	1.000
Thallium	ND	0.26	1.000
Vanadium	39	0.52	1.000
Zinc	210	10	10.00

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Target Analyte List Metals

Lab #:	166566	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB13 [1]	Batch#:	83337
Lab ID:	166566-005	Sampled:	07/28/03
Matrix:	Soil	Received:	07/28/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 6%

Analyte	Result	RL	Diln Fac
Aluminum	6,800	55	10.00
Antimony	ND	3.3	1.000
Arsenic	2.2	0.28	1.000
Barium	77	0.55	1.000
Beryllium	0.30	0.11	1.000
Cadmium	1.3	0.28	1.000
Chromium	52	0.55	1.000
Cobalt	9.8	1.1	1.000
Copper	12	0.55	1.000
Iron	13,000	55	10.00
Lead	39	0.17	1.000
Magnesium	2,700	28	1.000
Manganese	430	0.55	1.000
Nickel	49	1.1	1.000
Selenium	ND	0.28	1.000
Silver	ND	0.28	1.000
Thallium	ND	0.28	1.000
Vanadium	31	0.55	1.000
Zinc	48	1.1	1.000

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Target Analyte List Metals

Lab #:	166566	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220909	Batch#:	83337
Matrix:	Soil	Prepared:	07/31/03
Units:	mg/Kg	Analyzed:	08/01/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166566	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220910

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	936.0	94	75-125
Antimony	100.0	110.5	111	75-125
Arsenic	50.00	49.20	98	75-125
Barium	100.0	97.50	98	75-125
Beryllium	2.500	2.530	101	75-125
Cadmium	10.00	9.550	96	75-125
Chromium	100.0	97.00	97	75-125
Cobalt	25.00	23.85	95	75-125
Copper	12.50	12.25	98	75-125
Iron	1,000	959.5	96	75-125
Lead	100.0	103.0	103	75-125
Magnesium	1,000	985.0	99	75-125
Manganese	25.00	23.90	96	75-125
Nickel	25.00	24.30	97	75-125
Selenium	50.00	48.90	98	75-125
Silver	10.00	9.900	99	75-125
Thallium	50.00	46.50	93	75-125
Vanadium	25.00	24.60	98	75-125
Zinc	25.00	23.85	95	75-125

Type: BSD Lab ID: QC220911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	913.0	91	75-125	2	30
Antimony	100.0	107.0	107	75-125	3	30
Arsenic	50.00	48.25	97	75-125	2	30
Barium	100.0	94.00	94	75-125	4	30
Beryllium	2.500	2.495	100	75-125	1	30
Cadmium	10.00	9.300	93	75-125	3	30
Chromium	100.0	95.00	95	75-125	2	30
Cobalt	25.00	23.25	93	75-125	3	30
Copper	12.50	12.00	96	75-125	2	30
Iron	1,000	940.5	94	75-125	2	30
Lead	100.0	99.50	100	75-125	3	30
Magnesium	1,000	967.0	97	75-125	2	30
Manganese	25.00	23.40	94	75-125	2	30
Nickel	25.00	23.75	95	75-125	2	30
Selenium	50.00	46.55	93	75-125	5	30
Silver	10.00	9.450	95	75-125	5	30
Thallium	50.00	45.45	91	75-125	2	30
Vanadium	25.00	23.90	96	75-125	3	30
Zinc	25.00	23.25	93	75-125	3	30



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166566	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB14[1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type: MS
Lab ID: QC220912

Moisture: 10%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Lim	Fac
Aluminum	10,440	1,058	12,880 >LR	230 NM	75-125	1.000	
Antimony	1.030	105.8	45.66	42 *	75-125	1.000	
Arsenic	3.653	52.91	50.58	89	75-125	1.000	
Barium	36.53	105.8	142.9	100	75-125	1.000	
Beryllium	0.3930	2.646	3.032	100	75-125	1.000	
Cadmium	1.827	10.58	11.64	93	75-125	1.000	
Chromium	76.96	105.8	175.1	93	75-125	1.000	
Cobalt	12.30	26.46	37.46	95	75-125	1.000	
Copper	6.721	13.23	20.11	101	75-125	1.000	
Iron	20,600	1,058	21,810 >LR	115 NM	75-125	1.000	
Lead	6.125	105.8	113.8	102	75-125	1.000	
Magnesium	4,250	1,058	5,778	144 NM	75-125	10.00	
Manganese	293.2	26.46	341.8	184 NM	75-125	1.000	
Nickel	98.10	26.46	130.7	123	75-125	1.000	
Selenium	<0.1889	52.91	46.03	87	75-125	1.000	
Silver	<0.03000	10.58	10.11	96	75-125	1.000	
Thallium	0.2298	52.91	48.41	91	75-125	1.000	
Vanadium	46.88	26.46	71.43	93	75-125	1.000	
Zinc	30.57	26.46	57.14	100	75-125	1.000	

Type: MSD
Lab ID: QC220913

Moisture: 10%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Fac
Aluminum	1,063	13,330 >LR	271 NM	75-125	NC	30	1.000
Antimony	106.3	41.57	38 *	75-125	10	30	1.000
Arsenic	53.16	50.77	89	75-125	0	30	1.000
Barium	106.3	139.3	97	75-125	3	30	1.000
Beryllium	2.658	2.993	98	75-125	2	30	1.000
Cadmium	10.63	11.48	91	75-125	2	30	1.000
Chromium	106.3	178.1	95	75-125	1	30	1.000
Cobalt	26.58	37.21	94	75-125	1	30	1.000
Copper	13.29	19.83	99	75-125	2	30	1.000
Iron	1,063	22,200 >LR	151 NM	75-125	NC	30	1.000
Lead	106.3	112.2	100	75-125	2	30	1.000
Magnesium	1,063	5,726	139 *	75-125	1	30	10.00
Manganese	26.58	340.8	179 NM	75-125	0	30	1.000
Nickel	26.58	132.4	129 *	75-125	1	30	1.000
Selenium	53.16	46.20	87	75-125	0	30	1.000
Silver	10.63	9.835	93	75-125	3	30	1.000
Thallium	53.16	48.75	91	75-125	0	30	1.000
Vanadium	26.58	71.77	94	75-125	0	30	1.000
Zinc	26.58	56.88	99	75-125	1	30	1.000

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1

5.0

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079080
Filename : tr212243
IDF : 5.0
PDF : 48.78049
Run type : SER
Samplenum: QC220914
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 12:59
Units : mg/Kg

MSS : 166599-007

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	73307079077	ND	2.93	ND	14.6	--	10	u
Arsenic	73307079077	3.29	0.244	2.46	1.22	25	10	fu
Barium	73307079077	32.9	0.488	32.4	2.44	1	10	u
Beryllium	73307079077	0.354	0.0976	ND	0.488	--	10	u
Cadmium	73307079077	1.64	0.244	1.55	1.22	--	10	u
Calcium	73307079077	2330	24.4	2340	122	0	10	u
Chromium	73307079077	69.3	0.488	68.8	2.44	1	10	u
Cobalt	73307079077	11.1	0.976	11.1	4.88	1	10	u
Copper	73307079077	6.05	0.488	6.17	2.44	2	10	u
Iron	*** usable MSS data not found ***							
Lead	73307079077	5.51	0.146	5.20	0.732	6	10	u
Magnesium	73307079077	3730	24.4	3720	122	0	10	u
Manganese	73307079077	264	0.488	263	2.44	0	10	u
Molybdenum	73307079077	ND	0.976	ND	4.88	--	10	u
Nickel	73307079077	88.3	0.976	89.0	4.88	1	10	u
Selenium	73307079078	ND	0.244	ND	1.22	--	10	u
Silver	73307079077	ND	0.244	ND	1.22	--	10	u
Thallium	73307079077	ND	0.244	1.99	1.22	--	10	au
Vanadium	73307079077	42.2	0.488	41.5	2.44	2	10	u
Zinc	73307079077	27.5	0.976	27.6	4.88	0	10	u
Titanium	*** usable MSS data not found ***							

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73307079079	Seqnum : 73307079082
Filename : tr212242	Filename : tr212245
IDF : 10.0	IDF : 50.0
PDF : 48.78049	PDF : 48.78049
Run type : MSS	Run type : SER
Samplenum: 166599-007	Samplenum: QC220914
Matrix : Soil	Matrix : Soil
Batchnum : 83337	Batchnum : 83337
Inj : 01-AUG-2003 12:54	Inj : 01-AUG-2003 13:06
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	9400	48.8	9430	244	0	10	u
Antimony	ND	29.3	ND	146	--	10	
Arsenic	*** usable MSS data not found ***						
Barium	33.2	4.88	33.2	24.4	--	10	
Beryllium	ND	0.976	ND	4.88	--	10	
Cadmium	ND	2.44	ND	12.2	--	10	
Calcium	2420	244	2400	1220	--	10	
Chromium	70.7	4.88	69.8	24.4	1	10	
Cobalt	11.0	9.76	ND	48.8	--	10	
Copper	6.98	4.88	ND	24.4	--	10	
Iron	18500	48.8	18700	244	1	10	u
Lead	4.51	1.46	ND	7.32	--	10	
Magnesium	3830	244	3730	1220	2	10	
Manganese	272	4.88	273	24.4	1	10	
Molybdenum	ND	9.76	ND	48.8	--	10	
Nickel	91.2	9.76	91.7	48.8	--	10	
Selenium	ND	2.44	ND	12.2	--	10	
Silver	ND	2.44	ND	12.2	--	10	
Thallium	2.76	2.44	ND	12.2	--	10	
Vanadium	42.1	4.88	41.7	24.4	--	10	
Zinc	28.1	9.76	ND	48.8	--	10	
Titanium	541	4.88	546	24.4	1	10	u

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079106
Filename : tr212269
IDF : 1.0
PDF : 48.78049
Run type : PDS
Samplenum: QC221049
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 14:47
Units : ug/L

MSS : 166599-007

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec Lim%Rec	Flags
Aluminum	73307079079	19270	20000	200900 >LR 41 15-150	:>u
Antimony	73307079077	19.00	2000	2270 113 15-123	u
Arsenic	73307079077	67.40	1000	1130 106 40-126	u
Barium	73307079077	674.0	2000	2680 100 19-138	u
Beryllium	73307079077	7.250	50	60.80 107 58-120	u
Cadmium	73307079077	33.70	200	232.0 99 47-120	u
Calcium	73307079077	47860	20000	64090 81 16-150	u
Chromium	73307079077	1420	2000	3330 96 35-131	u
Cobalt	73307079077	227.0	500	710.0 97 39-120	u
Copper	73307079077	124.0	250	378.0 102 32-150	u
Iron	73307079079	38000	20000	366900 >LR -66 15-150	:>u
Lead	73307079077	113.0	2000	2170 103 23-137	u
Magnesium	73307079077	76410	20000	93260 84 20-150	u
Manganese	73307079077	5410	500	5560 30 15-150	:u
Molybdenum	73307079077	2.680	400	413.0 103 28-120	u
Nickel	73307079077	1810	500	2250 88 32-136	u
Selenium	73307079078	ND	1000	997.0 100 38-120	u
Silver	73307079077	ND	200	205.0 103 55-120	u
Thallium	73307079077	4.240	1000	963.0 96 50-120	u
Vanadium	73307079077	865.0	500	1340 95 25-130	u
Zinc	73307079077	564.0	500	1040 95 20-147	u
Titanium	73307079079	1110	1000	11700 >LR 60 15-150	:>u

: =recovery not meaningful >=>LR u=use

d: 6010B Standard: blank
ime: 08/01/03 05:47:35

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Standardization Rpt.

Method: 6010B Standard: cst hi
 Time: 08/01/03 05:53:15

em	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
ave	.150	.091	.039	5.55	.640	.236	.050
Dev	.007	.005	.001	.02	.003	.001	.000
RSD	4.92	5.54	1.41	.357	.488	.471	.273
	.144	.087	.038	5.53	.638	.235	.050
	.155	.094	.039	5.56	.643	.237	.050
em	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
ave	.139	.111	.156	.162	.279	.388	.040
Dev	.000	.000	.000	.002	.002	.001	.001
RSD	.214	.011	.158	.978	.649	.312	1.32
1	.139	.111	.156	.163	.278	.387	.040
2	.139	.111	.157	.161	.280	.389	.039
em	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
ave	.051	.068	.027	.192	.034	.0556	.0457
Dev	.000	.001	.000	.001	.000	.0003	.0002
RSD	.153	.831	1.34	.291	.557	.5982	.4335
1	.051	.068	.026	.192	.034	.0554	.0455
2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

Standardization

Report

Slope = Conc(SIR)/IR

Mod: 6010B

Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
206.831	Multiple Standards	6625.80	4.25512	08/01/03 05:53:15	
206.832	Multiple Standards	10861.1	-4.95256	08/01/03 05:53:15	
189.042	Multiple Standards	12606.0	12.0996	08/01/03 05:53:15	
493.409	Multiple Standards	180.343	-.106017	08/01/03 05:53:15	
313.042	Multiple Standards	145.252	3.58223	08/01/03 05:53:15	
226.502	Multiple Standards	424.876	-.420509	08/01/03 05:53:15	
267.716	Multiple Standards	4035.62	-1.45267	08/01/03 05:53:15	
228.616	Multiple Standards	3592.62	.689783	08/01/03 05:53:15	
324.754	Multiple Standards	1698.73	11.3432	08/01/03 05:53:15	
220.351	Multiple Standards	3210.65	-2.02149	08/01/03 05:53:15	
220.352	Multiple Standards	3068.61	.349390	08/01/03 05:53:15	
202.030	Multiple Standards	3588.89	-.796321	08/01/03 05:53:15	
231.604	Multiple Standards	1287.52	.069626	08/01/03 05:53:15	
196.021	Multiple Standards	12134.7	20.6758	08/01/03 05:53:15	
196.022	Multiple Standards	9986.62	-9.52698	08/01/03 05:53:15	
328.068	Multiple Standards	1476.84	-.513876	08/01/03 05:53:15	
190.864	Multiple Standards	18521.3	8.55638	08/01/03 05:53:15	
292.402	Multiple Standards	2605.16	-.984608	08/01/03 05:53:15	
213.856	Multiple Standards	3715.97	-22.0249	08/01/03 05:53:15	
308.215	Multiple Standards	43764.1	-1421.94	08/01/03 05:53:15	
317.933	Multiple Standards	33923.4	451.181	08/01/03 05:53:15	
271.441	Multiple Standards	41884.3	34.6737	08/01/03 05:53:15	
279.079	Multiple Standards	52929.5	-7.62003	08/01/03 05:53:15	
257.610	Multiple Standards	517.941	-.046598	08/01/03 05:53:15	
220.353	NONE	1.00000	.000000	*08/01/03 05:53:15	
206.838	NONE	1.00000	.000000	*08/01/03 05:53:15	
196.026	NONE	1.00000	.000000	*08/01/03 05:53:15	
334.941	Multiple Standards	545.203	-38.5847	08/01/03 05:53:15	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

stid : MET07
gnum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltype :

Standards: 03WS1109

analyzer	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
aluminum	1000.000	994.5000	ug/L	-1	5	
antimony	1000.000	1010.000	ug/L	1	5	
arsenic	500.0000	506.0000	ug/L	1	5	
barium	1000.000	1000.000	ug/L	0	5	
beryllium	100.0000	100.0000	ug/L	0	5	
cadmium	100.0000	101.0000	ug/L	1	5	
calcium	2000.000	2001.000	ug/L	0	5	
chromium	200.0000	201.0000	ug/L	1	5	
cobalt	500.0000	504.0000	ug/L	1	5	
copper	200.0000	201.0000	ug/L	1	5	
iron	1000.000	1017.000	ug/L	2	5	
lead	500.0000	503.0000	ug/L	1	5	
magnesium	2000.000	2009.000	ug/L	0	5	
manganese	100.0000	100.0000	ug/L	0	5	
molybdenum	1000.000	1000.000	ug/L	0	5	
nickel	500.0000	501.0000	ug/L	0	5	
selenium	500.0000	506.0000	ug/L	1	5	
silver	100.0000	100.0000	ug/L	0	5	
thallium	500.0000	502.0000	ug/L	0	5	
titanium	1000.000	1000.000	ug/L	0	5	
vanadium	500.0000	501.0000	ug/L	0	5	
zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

stid : MET07
gnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltype :

standards: 03WS1149

anlyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
aluminum	500.0000	486.1000	ug/L	-3		10	
antimony	500.0000	546.0000	ug/L	9		10	
arsenic	250.0000	261.0000	ug/L	4		10	
barium	500.0000	493.0000	ug/L	-1		10	
beryllium	50.00000	51.20000	ug/L	2		10	
cadmium	50.00000	49.10000	ug/L	-2		10	
calcium	1000.000	984.1000	ug/L	-2		10	
chromium	100.0000	100.0000	ug/L	0		10	
cobalt	250.0000	249.0000	ug/L	0		10	
copper	100.0000	102.0000	ug/L	2		10	
iron	500.0000	493.6000	ug/L	-1		10	
lead	250.0000	248.0000	ug/L	-1		10	
magnesium	1000.000	1012.000	ug/L	1		10	
manganese	50.00000	49.30000	ug/L	-1		10	
molybdenum	500.0000	487.0000	ug/L	-3		10	
nickel	250.0000	252.0000	ug/L	1		10	
selenium	250.0000	248.0000	ug/L	-1		10	
silver	50.00000	49.10000	ug/L	-2		10	
thallium	250.0000	242.0000	ug/L	-3		10	
titanium	500.0000	508.0000	ug/L	2		10	
vanadium	250.0000	247.0000	ug/L	-1		10	
zinc	50.00000	49.60000	ug/L	-1		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

tid : MET07
num : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltype :

Standards: 03WS0897

analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	144.9000	ug/L	45	50
Antimony	60.00000	80.10000	ug/L	34	50
Arsenic	5.000000	4.100000	ug/L	-18	50
Barium	10.00000	9.950000	ug/L	-1	50
Beryllium	2.000000	1.940000	ug/L	-3	50
Cadmium	5.000000	4.750000	ug/L	-5	50
Chromium	10.00000	9.490000	ug/L	-5	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	9.380000	ug/L	-6	50
Iron	100.0000	103.8000	ug/L	4	50
Lead	3.000000	3.690000	ug/L	23	50
Manganese	10.00000	9.860000	ug/L	-1	50
Molybdenum	20.00000	16.90000	ug/L	-16	50
Nickel	20.00000	20.30000	ug/L	2	50
Selenium	5.000000	3.380000	ug/L	-32	50
Silver	5.000000	4.750000	ug/L	-5	50
Thallium	5.000000	7.200000	ug/L	44	50
Vanadium	10.00000	9.290000	ug/L	-7	50
Zinc	20.00000	21.30000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Std : MET07
Inum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

tid : MET07
num : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	708.8000	ug/L	-5	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1476.000	ug/L	-2	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	728.0000	ug/L	-3	10	
Lead		375.0000	339.0000	ug/L	-10	10	
Magnesium		1500.000	1488.000	ug/L	-1	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	694.0000	ug/L	-7	10	
Nickel		375.0000	373.0000	ug/L	-1	10	
Selenium		375.0000	350.0000	ug/L	-7	10	
Silver		75.00000	72.60000	ug/L	-3	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Std : MET07
Inum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	477.9000	ug/L	-4	10
Antimony		500.0000	488.0000	ug/L	-2	10
Arsenic		250.0000	263.0000	ug/L	5	10
Barium		500.0000	497.0000	ug/L	-1	10
Beryllium		50.00000	49.90000	ug/L	0	10
Cadmium		50.00000	49.80000	ug/L	0	10
Calcium		1000.000	1018.000	ug/L	2	10
Chromium		100.0000	100.0000	ug/L	0	10
Cobalt		250.0000	250.0000	ug/L	0	10
Copper		100.0000	104.0000	ug/L	4	10
Iron		500.0000	496.1000	ug/L	-1	10
Lead		250.0000	241.0000	ug/L	-4	10
Magnesium		1000.000	988.9000	ug/L	-1	10
Manganese		50.00000	49.70000	ug/L	-1	10
Molybdenum		500.0000	462.0000	ug/L	-8	10
Nickel		250.0000	254.0000	ug/L	2	10
Selenium		250.0000	240.0000	ug/L	-4	10
Silver		50.00000	50.30000	ug/L	1	10
Thallium		250.0000	244.0000	ug/L	-2	10
Titanium		500.0000	509.0000	ug/L	2	10
Vanadium		250.0000	249.0000	ug/L	0	10
Zinc		50.00000	50.00000	ug/L	0	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Stdid : MET07
Sgnum : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.5000	ug/L	-2	10	
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1089.000	ug/L	9	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	107.0000	ug/L	7	10	
Iron		500.0000	548.6000	ug/L	10	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1052.000	ug/L	5	10	
Manganese		50.00000	52.20000	ug/L	4	10	
Molybdenum		500.0000	486.0000	ug/L	-3	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.80000	ug/L	4	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	258.0000	ug/L	3	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

stdid : MET07
jnum : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltype :

standards: 03WS1151

analyzer	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
aluminum		750.0000	770.2000	ug/L	3	10
antimony		750.0000	783.0000	ug/L	4	10
arsenic		375.0000	381.0000	ug/L	2	10
barium		750.0000	743.0000	ug/L	-1	10
beryllium		75.00000	76.10000	ug/L	1	10
bismuth		75.00000	73.50000	ug/L	-2	10
calcium		1500.000	1539.000	ug/L	3	10
chromium		150.0000	151.0000	ug/L	1	10
cobalt		375.0000	374.0000	ug/L	0	10
copper		150.0000	155.0000	ug/L	3	10
iron		750.0000	752.2000	ug/L	0	10
lead		375.0000	366.0000	ug/L	-2	10
magnesium		1500.000	1537.000	ug/L	2	10
manganese		75.00000	74.60000	ug/L	-1	10
molybdenum		750.0000	736.0000	ug/L	-2	10
nickel		375.0000	381.0000	ug/L	2	10
selenium		375.0000	373.0000	ug/L	-1	10
silver		75.00000	77.00000	ug/L	3	10
thallium		375.0000	366.0000	ug/L	-2	10
titanium		750.0000	758.0000	ug/L	1	10
vanadium		375.0000	374.0000	ug/L	0	10
zinc		75.00000	74.80000	ug/L	0	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079073

Run Name :
Filename : tr212236

Injected : 01-AUG-2003 12:30
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	503.8000	ug/L	1		10	
Antimony		500.0000	494.0000	ug/L	-1		10	
Arsenic		250.0000	262.0000	ug/L	5		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	52.60000	ug/L	5		10	
Cadmium		50.00000	49.40000	ug/L	-1		10	
Calcium		1000.000	1054.000	ug/L	5		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	252.0000	ug/L	1		10	
Copper		100.0000	104.0000	ug/L	4		10	
Iron		500.0000	532.3000	ug/L	6		10	
Lead		250.0000	245.0000	ug/L	-2		10	
Magnesium		1000.000	1068.000	ug/L	7		10	
Manganese		50.00000	50.40000	ug/L	1		10	
Molybdenum		500.0000	472.0000	ug/L	-6		10	
Nickel		250.0000	257.0000	ug/L	3		10	
Selenium		250.0000	255.0000	ug/L	2		10	
Silver		50.00000	48.90000	ug/L	-2		10	
Thallium		250.0000	249.0000	ug/L	0		10	
Titanium		500.0000	511.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.10000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079085

Run Name :
Filename : tr212248

Injected : 01-AUG-2003 13:22
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	739.1000	ug/L	-1	10	
Antimony		750.0000	786.0000	ug/L	5	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	728.0000	ug/L	-3	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	72.50000	ug/L	-3	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	789.0000	ug/L	5	10	
Lead		375.0000	404.0000	ug/L	8	10	
Magnesium		1500.000	1472.000	ug/L	-2	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	772.0000	ug/L	3	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	393.0000	ug/L	5	10	
Silver		75.00000	75.80000	ug/L	1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	73.10000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079097

Run Name :
Filename : tr212260

Injected : 01-AUG-2003 14:13
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	770.7000	ug/L	3		10	
Antimony		750.0000	784.0000	ug/L	5		10	
Arsenic		375.0000	391.0000	ug/L	4		10	
Barium		750.0000	749.0000	ug/L	0		10	
Beryllium		75.00000	78.20000	ug/L	4		10	
Cadmium		75.00000	74.30000	ug/L	-1		10	
Calcium		1500.000	1471.000	ug/L	-2		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	377.0000	ug/L	1		10	
Copper		150.0000	155.0000	ug/L	3		10	
Iron		750.0000	806.5000	ug/L	8		10	
Lead		375.0000	409.0000	ug/L	9		10	
Magnesium		1500.000	1508.000	ug/L	1		10	
Manganese		75.00000	75.30000	ug/L	0		10	
Molybdenum		750.0000	764.0000	ug/L	2		10	
Nickel		375.0000	387.0000	ug/L	3		10	
Selenium		375.0000	393.0000	ug/L	5		10	
Silver		75.00000	77.70000	ug/L	4		10	
Thallium		375.0000	374.0000	ug/L	0		10	
Titanium		750.0000	771.0000	ug/L	3		10	
Vanadium		375.0000	375.0000	ug/L	0		10	
Zinc		75.00000	76.20000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079109

Run Name :
Filename : tr212272

Injected : 01-AUG-2003 15:11
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	527.9000	ug/L	6	10	
Antimony		500.0000	468.0000	ug/L	-6	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	948.2000	ug/L	-5	10	
Chromium		100.0000	97.30000	ug/L	-3	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	503.1000	ug/L	1	10	
Lead		250.0000	265.0000	ug/L	6	10	
Magnesium		1000.000	1000.000	ug/L	0	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	259.0000	ug/L	4	10	
Silver		50.00000	49.40000	ug/L	-1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	499.0000	ug/L	0	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079118

Run Name :
Filename : tr212282

Injected : 01-AUG-2003 16:00
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	518.0000	ug/L	4		10	
Antimony		500.0000	541.0000	ug/L	8		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	498.0000	ug/L	0		10	
Beryllium		50.00000	51.10000	ug/L	2		10	
Cadmium		50.00000	48.60000	ug/L	-3		10	
Calcium		1000.000	966.1000	ug/L	-3		10	
Chromium		100.0000	97.50000	ug/L	-3		10	
Cobalt		250.0000	244.0000	ug/L	-2		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	480.3000	ug/L	-4		10	
Lead		250.0000	268.0000	ug/L	7		10	
Magnesium		1000.000	966.8000	ug/L	-3		10	
Manganese		50.00000	49.80000	ug/L	0		10	
Molybdenum		500.0000	498.0000	ug/L	0		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	263.0000	ug/L	5		10	
Silver		50.00000	49.00000	ug/L	-2		10	
Thallium		250.0000	245.0000	ug/L	-2		10	
Titanium		500.0000	503.0000	ug/L	1		10	
Vanadium		250.0000	242.0000	ug/L	-3		10	
Zinc		50.00000	49.30000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Run Number: 73307079003
Sample Name: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL		
Antimony	[4.1100]	60.00000	ug/L	<RL		
Arsenic	[0.5980]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.6380]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1590]	10.00000	ug/L	<RL		
Molybdenum	[1.7300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.3900]	5.000000	ug/L	<RL		
Titanium	[0.9030]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Runnum: 73307079015
Filename: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[10.030]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5330]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4280]	10.00000	ug/L	<RL		
Molybdenum	[3.6500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2100]	5.000000	ug/L	<RL		
Titanium	[0.6130]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.1780]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Run Number: 73307079027
Sample Name: tr212190

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1160]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[57.280]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.3300]		10.00000	ug/L	<	RL
Iron	[14.150]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.9880]		500.0000	ug/L	<	RL
Manganese	[0.4800]		10.00000	ug/L	<	RL
Molybdenum	[2.2900]		20.00000	ug/L	<	RL
Nickel	[0.3410]		20.00000	ug/L	<	RL
Selenium	[2.1400]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.5700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4830]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Runnum: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCE

Injected: 01-AUG-2003 09:39

analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2190]	100.0000	ug/L	<RL		
Antimony	[2.7100]	60.00000	ug/L	<RL		
Arsenic	[0.8720]	5.000000	ug/L	<RL		
Barium	[0.0330]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0450]	5.000000	ug/L	<RL		
Calcium	[56.840]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1400]	10.00000	ug/L	<RL		
Iron	[13.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[12.470]	500.0000	ug/L	<RL		
Manganese	[0.5800]	10.00000	ug/L	<RL		
Molybdenum	[2.1100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.2500]	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4870]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Runnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCE

Injected: 01-AUG-2003 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[11.300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1670]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[63.450]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.1300]		10.00000	ug/L	<	RL
Copper	[2.5800]		10.00000	ug/L	<	RL
Iron	[19.660]		100.0000	ug/L	<	RL
Lead	[0.9820]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.5340]		10.00000	ug/L	<	RL
Molybdenum	[5.7800]		20.00000	ug/L	<	RL
Nickel	[0.7750]		20.00000	ug/L	<	RL
Selenium	[2.8000]		5.000000	ug/L	<	RL
Silver	[0.1070]		5.000000	ug/L	<	RL
Thallium	[1.7600]		5.000000	ug/L	<	RL
Titanium	[2.2400]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.8880]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Sample: 73307079062
Name: tr212225

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 11:39

	Quant	Amt	RL	Units	Req	Flags
lyte	[2.2710]	100.0000	ug/L	<RL		
minium	[21.700]	60.00000	ug/L	<RL		
imony	[2.6400]	5.000000	ug/L	<RL		
enic	[0.0450]	10.00000	ug/L	<RL		
rium	ND	2.000000	ug/L	<RL		
yllium	ND	5.000000	ug/L	<RL		
dmium	ND	500.0000	ug/L	<RL		
lcium	ND	10.00000	ug/L	<RL		
romium	[0.0870]	10.00000	ug/L	<RL		
balt	[2.1700]	10.00000	ug/L	<RL		
pper	[14.020]	100.0000	ug/L	<RL		
on	ND	3.000000	ug/L	<RL		
ad	ND	500.0000	ug/L	<RL		
gnesium	[0.4760]	10.00000	ug/L	<RL		
nganese	[1.4600]	20.00000	ug/L	<RL		
lybdenum	[0.5200]	20.00000	ug/L	<RL		
ickel	ND	5.000000	ug/L	<RL		
elenium	ND	5.000000	ug/L	<RL		
ilver	[0.0320]	5.000000	ug/L	<RL		
hallium	ND	10.00000	ug/L	<RL		
itanium	ND	10.00000	ug/L	<RL		
anadium	[0.2500]	20.00000	ug/L	<RL		
inc						

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079074
Filename: tr212237

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[21.200]		60.00000	ug/L	<RL	
Arsenic	[0.0640]		5.000000	ug/L	<RL	
Barium	ND		10.00000	ug/L	<RL	
Beryllium	[0.4450]		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[4.2090]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	[2.6400]		10.00000	ug/L	<RL	
Iron	[30.200]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	ND		500.0000	ug/L	<RL	
Manganese	[0.3840]		10.00000	ug/L	<RL	
Molybdenum	[3.8400]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	[4.0300]		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	[2.8500]		5.000000	ug/L	<RL	
Titanium	ND		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079086
Filename: tr212249

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 13:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[5.1740]	100.0000	ug/L	<RL		
Antimony	[8.7500]	60.00000	ug/L	<RL		
Arsenic	[1.4400]	5.000000	ug/L	<RL		
Barium	[0.1250]	10.00000	ug/L	<RL		
Beryllium	[0.4670]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1900]	10.00000	ug/L	<RL		
Iron	[30.880]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.5560]	10.00000	ug/L	<RL		
Molybdenum	[8.8200]	20.00000	ug/L	<RL		
Nickel	[0.3250]	20.00000	ug/L	<RL		
Selenium	[1.8800]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.1500]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079098
Filename: tr212261

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 14:18

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[38.930]	100.0000	ug/L	<RL		
Antimony	[2.6700]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2090]	10.00000	ug/L	<RL		
Beryllium	[0.8150]	2.000000	ug/L	<RL		
Cadmium	[0.0230]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[1.6000]	10.00000	ug/L	<RL		
Iron	[26.350]	100.0000	ug/L	<RL		
Lead	[0.0270]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.7100]	10.00000	ug/L	<RL		
Molybdenum	[9.7400]	20.00000	ug/L	<RL		
Nickel	[0.2370]	20.00000	ug/L	<RL		
Selenium	[3.2200]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.4200]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079110
Filename: tr212273

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 15:16

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[48.020]	100.0000	ug/L	<RL		
Antimony	[9.5300]	60.00000	ug/L	<RL		
Arsenic	[3.1100]	5.000000	ug/L	<RL		
Barium	[0.0680]	10.00000	ug/L	<RL		
Beryllium	[1.4200]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0300]	10.00000	ug/L	<RL		
Copper	[1.5000]	10.00000	ug/L	<RL		
Iron	[7.3690]	100.0000	ug/L	<RL		
Lead	[0.6040]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1110]	10.00000	ug/L	<RL		
Molybdenum	[5.9500]	20.00000	ug/L	<RL		
Nickel	[0.3630]	20.00000	ug/L	<RL		
Selenium	[2.9900]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079119
Filename: tr212283

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 16:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[69.920]	100.0000	ug/L	<RL		
Antimony	[6.0200]	60.00000	ug/L	<RL		
Arsenic	[2.1300]	5.000000	ug/L	<RL		
Barium	[0.1210]	10.00000	ug/L	<RL		
Beryllium	[0.0850]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0350]	10.00000	ug/L	<RL		
Copper	[0.9960]	10.00000	ug/L	<RL		
Iron	[17.990]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.2950]	10.00000	ug/L	<RL		
Molybdenum	[1.9200]	20.00000	ug/L	<RL		
Nickel	[0.2980]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Std : MET07
Inum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500000.0	508600.0	ug/L	2	
Antimony	500.0000	557.0000	ug/L	11	20
Arsenic	500.0000	549.0000	ug/L	10	20
Barium	500.0000	505.0000	ug/L	1	20
Beryllium	500.0000	500.0000	ug/L	0	20
Bismuth	1000.000	987.0000	ug/L	-1	20
Calcium	500000.0	453100.0	ug/L	-9	
Chromium	500.0000	482.0000	ug/L	-4	20
Cobalt	500.0000	483.0000	ug/L	-3	20
Copper	500.0000	518.0000	ug/L	4	20
Iron	200000.0	187900.0	ug/L	-6	
Lead	1000.000	848.0000	ug/L	-15	20
Magnesium	500000.0	520300.0	ug/L	4	
Manganese	500.0000	484.0000	ug/L	-3	20
Molybdenum	500.0000	458.0000	ug/L	-8	20
Nickel	1000.000	1040.000	ug/L	4	20
Selenium	500.0000	499.0000	ug/L	0	20
Silver	1000.000	1040.000	ug/L	4	20
Thallium	500.0000	495.0000	ug/L	-1	20
Titanium	20000.00	2030.000	ug/L	-90	
Vanadium	500.0000	500.0000	ug/L	0	20
Zinc	1000.000	1030.000	ug/L	3	20

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

stid : MET07
qnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	541500.0	ug/L	8			
Antimony	500.0000	546.0000	ug/L	9	20		
Arsenic	500.0000	557.0000	ug/L	11	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	526.0000	ug/L	5	20		
Cadmium	1000.000	973.0000	ug/L	-3	20		
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	190300.0	ug/L	-5			
Lead	1000.000	1030.000	ug/L	3	20		
Magnesium	500000.0	545500.0	ug/L	9			
Manganese	500.0000	503.0000	ug/L	1	20		
Molybdenum	500.0000	476.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	516.0000	ug/L	3	20		
Silver	1000.000	894.0000	ug/L	-11	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2110.000	ug/L	-89			
Vanadium	500.0000	508.0000	ug/L	2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079072

Run Name :
Filename : tr212235

Injected : 01-AUG-2003 12:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516600.0	ug/L	3		
Antimony	500.0000	525.0000	ug/L	5	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	507.0000	ug/L	1	20	
Beryllium	500.0000	516.0000	ug/L	3	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	474600.0	ug/L	-5		
Chromium	500.0000	492.0000	ug/L	-2	20	
Cobalt	500.0000	492.0000	ug/L	-2	20	
Copper	500.0000	522.0000	ug/L	4	20	
Iron	200000.0	191800.0	ug/L	-4		
Lead	1000.000	1100.000	ug/L	10	20	
Magnesium	500000.0	545300.0	ug/L	9		
Manganese	500.0000	501.0000	ug/L	0	20	
Molybdenum	500.0000	486.0000	ug/L	-3	20	
Nickel	1000.000	1060.000	ug/L	6	20	
Selenium	500.0000	550.0000	ug/L	10	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	509.0000	ug/L	2	20	
Titanium	20000.00	2100.000	ug/L	-90		
Vanadium	500.0000	506.0000	ug/L	1	20	
Zinc	1000.000	1060.000	ug/L	6	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079108

Run Name :
Filename : tr212271

Injected : 01-AUG-2003 15:02
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	496000.0	ug/L	-1			
Antimony	500.0000	503.0000	ug/L	1	20		
Arsenic	500.0000	556.0000	ug/L	11	20		
Barium	500.0000	507.0000	ug/L	1	20		
Beryllium	500.0000	497.0000	ug/L	-1	20		
Cadmium	1000.000	986.0000	ug/L	-1	20		
Calcium	500000.0	450100.0	ug/L	-10			
Chromium	500.0000	477.0000	ug/L	-5	20		
Cobalt	500.0000	480.0000	ug/L	-4	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	185100.0	ug/L	-7			
Lead	1000.000	1080.000	ug/L	8	20		
Magnesium	500000.0	527300.0	ug/L	5			
Manganese	500.0000	480.0000	ug/L	-4	20		
Molybdenum	500.0000	485.0000	ug/L	-3	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	537.0000	ug/L	7	20		
Silver	1000.000	995.0000	ug/L	-1	20		
Thallium	500.0000	483.0000	ug/L	-3	20		
Titanium	20000.00	2060.000	ug/L	-90			
Vanadium	500.0000	496.0000	ug/L	-1	20		
Zinc	1000.000	1040.000	ug/L	4	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr212164	CS	QC220939	83342	Soil	01-AUG-2003 05:59	1.0	1.0				1	
002	tr212165	ICV	QC220940	83342	Soil	01-AUG-2003 06:04	1.0	1.0				2	
003	tr212166	ICB	QC220941	83342	Soil	01-AUG-2003 06:21	1.0	1.0				3	
004	tr212167	CRI	QC220944	83342	Soil	01-AUG-2003 06:32	1.0	1.0				4	4:MG=520300
005	tr212168	ICSAB	QC220939	83342	Soil	01-AUG-2003 06:43	1.0	50.0					
006	tr212169	BLANK	QC220940	83342	Soil	01-AUG-2003 06:47	1.0	50.0					
007	tr212170	BS	QC220941	83342	Soil	01-AUG-2003 06:51	1.0	50.0					
008	tr212171	BSD	QC220944	83342	Soil	01-AUG-2003 06:56	1.0	44.64286	2				1:FE=196400
009	tr212172	MSS	QC220944	83342	Soil	01-AUG-2003 07:01	1.0	44.64286	1				1:FE=195700
010	tr212173	MSS	QC220944	83342	Soil	01-AUG-2003 07:06	5.0	44.64286					
011	tr212174	SER	QC220944	83342	Soil	01-AUG-2003 07:10	5.0	44.64286	1				
012	tr212175	SER	QC220944	83342	Soil	01-AUG-2003 07:14	5.0	44.64286					
013	tr212176	MSS	QC220944	83342	Soil	01-AUG-2003 07:19	1.0	1.0				5	
014	tr212177	CCV	QC220944	83342	Soil	01-AUG-2003 07:28	1.0	1.0					
015	tr212178	CCB	QC220944	83342	Soil	01-AUG-2003 07:32	25.0	44.64286	1				2:FE=209400
016	tr212179	SER	QC220944	83342	Soil	01-AUG-2003 07:36	1.0	47.16981					2:FE=231300
017	tr212180	MS	QC220943	83342	Soil	01-AUG-2003 07:40	1.0	40.98361	1				2:FE=207000
018	tr212181	MSD	QC220945	83342	Soil	01-AUG-2003 07:44	1.0	47.84689	3				1:FE=137400
019	tr212182	PDS	QC220945	83342	Soil	01-AUG-2003 07:53	1.0	44.24779	2				2:FE=188900
020	tr212183	SAMPLE	QC220945	83342	Soil	01-AUG-2003 07:57	1.0	39.21569	2				2:FE=172400
021	tr212184	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:01	1.0	45.66210	4				2:FE=167200
022	tr212185	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:05	1.0	47.84689	1				1:FE=139000
023	tr212186	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:09	1.0	45.66210	2				2:FE=166000
024	tr212187	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:26	1.0	1.0				8	
025	tr212188	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:39	1.0	47.84689					
026	tr212189	CCV	QC220945	83342	Soil	01-AUG-2003 08:47	10.0	44.24779					
027	tr212190	CCB	QC220945	83342	Soil	01-AUG-2003 08:51	10.0	39.21569	1				
028	tr212191	SAMPLE	QC220945	83342	Soil	01-AUG-2003 08:55	10.0	45.66210					
029	tr212192	SAMPLE	QC220945	83342	Soil	01-AUG-2003 09:00	1.0	46.72897					
030	tr212193	SAMPLE	QC220945	83342	Soil	01-AUG-2003 09:00	1.0						
031	tr212194	SAMPLE	QC220945	83342	Soil	01-AUG-2003 09:00	1.0						
032	tr212195	SAMPLE	QC220945	83342	Soil	01-AUG-2003 09:00	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SSS75 7=03SSS74 8=03WS1151 9=03SSS286 10=03SSS287

Analyst: Mer Wu Date: 8/1/97

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003 09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003 09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003 09:12	1.0	48.30918				3:FE=262700	
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003 09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003 09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003 09:33	1.0	1.0				5	
039	tr212202	CCB				01-AUG-2003 09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003 09:49	1.0	50.0					
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003 09:53	1.0	45.04505				2:FE=250500	
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003 09:57	1.0	49.50495				3:FE=234100	
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003 10:01	1.0	43.29004				2:FE=283000	
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003 10:05	1.0	46.08295				2:FE=243700	
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003 10:09	1.0	46.29630				2:FE=248000	
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003 10:13	1.0	47.84689				4:FE=439200	
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003 10:17	1.0	40.0				4:CA=430200	
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003 10:20	1.0	49.26108				2:FE=409400	
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003 10:25	20.0	1.0			1		
050	tr212213	CCV				01-AUG-2003 10:35	1.0	1.0				5	
051	tr212214	CCB				01-AUG-2003 10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003 10:43	50.0	1.0					
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003 10:46	100.0	1.0			1		
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003 10:50	1.0	1.0			1		
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003 10:54	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003 10:57	1.0	1.0					
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003 11:00	1.0	1.0			1		
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003 11:04	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003 11:07	1.0	1.0					
060	tr212223	ICSB				01-AUG-2003 11:18	1.0	1.0				4	
061	tr212224	CCV				01-AUG-2003 11:27	1.0	1.0				8	
062	tr212225	CCB				01-AUG-2003 11:39	1.0	1.0					
063	tr212226	BLANK	QC220926	83340	Water	01-AUG-2003 11:44	1.0	1.0			1		
064	tr212227	BS	QC220927	83340	Water	01-AUG-2003 11:50	1.0	1.0					

Stds used: 1=03WSI109 2=03WSI149 3=03WS0897 4=03WSI089 5=03WSI150 6=03SSS75 7=03SSS74 8=03WSI151 9=03SSS286 10=03SSS287

Analyst: MSW Date: 8/1/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	stds	Used	>LR
065	tr212228	BSD	QC220928	83340	Water	01-AUG-2003 11:53	1.0	1.0						
066	tr212229	SAMPLE	166649-001	83340	Water	01-AUG-2003 11:57	1.0	1.0						
067	tr212230	SAMPLE	166649-010	83340	Water	01-AUG-2003 12:00	1.0	1.0	1					
068	tr212231	SAMPLE	166649-010	83340	Water	01-AUG-2003 12:05	1.0	1.0						
069	tr212232	BLANK	QC220909	83337	Soil	01-AUG-2003 12:09	1.0	50.0	1					
070	tr212233	BS	QC220910	83337	Soil	01-AUG-2003 12:16	1.0	50.0						
071	tr212234	BSD	QC220911	83337	Soil	01-AUG-2003 12:19	1.0	50.0						
072	tr212235	IC5AB				01-AUG-2003 12:23	1.0	1.0						
073	tr212236	CCV				01-AUG-2003 12:30	1.0	1.0						
074	tr212237	CCB				01-AUG-2003 12:34	1.0	1.0						
075	tr212238	BS	QC220725	83290	Water	01-AUG-2003 12:38	1.0	1.0						
076	tr212239	BSD	QC220726	83290	Water	01-AUG-2003 12:43	1.0	1.0						
077	tr212240	MSS	166599-007	83337	Soil	01-AUG-2003 12:47	1.0	48.78049	4					
078	tr212241	MSS	166599-007	83337	Soil	01-AUG-2003 12:51	1.0	48.78049	3					
079	tr212242	MSS	166599-007	83337	Soil	01-AUG-2003 12:54	10.0	48.78049	1					
080	tr212243	SER	QC220914	83337	Soil	01-AUG-2003 12:59	5.0	48.78049	1					
081	tr212244	SER	QC220914	83337	Soil	01-AUG-2003 13:02	5.0	48.78049	1					
082	tr212245	SER	QC220914	83337	Soil	01-AUG-2003 13:06	50.0	48.78049						
083	tr212246	MS	QC220912	83337	Soil	01-AUG-2003 13:10	1.0	47.61905	1					
084	tr212247	MSD	QC220913	83337	Soil	01-AUG-2003 13:14	1.0	47.84689	1					
085	tr212248	CCV				01-AUG-2003 13:22	1.0	1.0						
086	tr212249	CCB				01-AUG-2003 13:28	1.0	1.0						
087	tr212250	SAMPLE	166566-004	83337	Soil	01-AUG-2003 13:34	1.0	47.16981	3					
088	tr212251	SAMPLE	166566-005	83337	Soil	01-AUG-2003 13:38	1.0	51.81347	3					
089	tr212252	SAMPLE	166568-001	83337	Soil	01-AUG-2003 13:41	1.0	40.48583						
090	tr212253	SAMPLE	166599-028	83337	Soil	01-AUG-2003 13:45	1.0	43.47826						
091	tr212254	SAMPLE	166599-029	83337	Soil	01-AUG-2003 13:48	1.0	49.50495						
092	tr212255	SAMPLE	166599-030	83337	Soil	01-AUG-2003 13:52	1.0	47.39336						
093	tr212256	SAMPLE	166599-031	83337	Soil	01-AUG-2003 13:55	1.0	47.16981						
094	tr212257	SAMPLE	166599-032	83337	Soil	01-AUG-2003 13:59	1.0	46.08295						
095	tr212258	SAMPLE	166599-033	83337	Soil	01-AUG-2003 14:02	1.0	44.05286						
096	tr212259	SAMPLE	166566-005	83337	Soil	01-AUG-2003 14:06	1.0	51.81347	2					

StdS used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151 9=03SS286 10=03SS287

Analyst: Mei-er Date: 8/1/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079

Instrument: MET07

TJA Trace ICP

Begin: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
097	tr212260	CCV				01-AUG-2003 14:13	1.0	1.0				8	
098	tr212261	CCB				01-AUG-2003 14:18	1.0	1.0					
099	tr212262	SAMPLE	166634-001	83337	Soil	01-AUG-2003 14:23	1.0	49.01961					
100	tr212263	SAMPLE	166634-002	83337	Soil	01-AUG-2003 14:26	1.0	49.75124	2				5:PB=272000
101	tr212264	SAMPLE	166634-003	83337	Soil	01-AUG-2003 14:30	1.0	44.05286					2:AL=127400
102	tr212265	MS	QC220912	83337	Soil	01-AUG-2003 14:33	10.0	47.61905	1	4			
103	tr212266	MSD	QC220913	83337	Soil	01-AUG-2003 14:37	10.0	47.84689		2			
104	tr212267	SAMPLE	166566-004	83337	Soil	01-AUG-2003 14:40	10.0	47.16981	1				
105	tr212268	SAMPLE	166566-005	83337	Soil	01-AUG-2003 14:44	10.0	51.81347					
106	tr212269	PDS	QC221049	83337	Soil	01-AUG-2003 14:47	1.0	48.78049				9 10	3:FE=366900
107	tr212270	SAMPLE	166634-002	83337	Soil	01-AUG-2003 14:53	10.0	49.75124					
108	tr212271	ICSAB				01-AUG-2003 15:02	1.0	1.0				4	4:MG=527300
109	tr212272	CCV				01-AUG-2003 15:11	1.0	1.0				5	
110	tr212273	CCB				01-AUG-2003 15:16	1.0	1.0					
111	tr212274	BLANK	QC220999	83358	WET DI	01-AUG-2003 15:24	1.0	1.0					
112	tr212275	BS	QC221000	83358	WET DI	01-AUG-2003 15:28	1.0	1.0	1				
113	tr212276	BSD	QC221001	83358	WET DI	01-AUG-2003 15:34	1.0	1.0		1			
114	tr212277	MSS	166595-001	83358	WET DI	01-AUG-2003 15:39	1.0	1.0	2				
115	tr212278	SDUP	QC221002	83358	WET DI	01-AUG-2003 15:42	1.0	1.0					
116	tr212279	SSPIKE	QC221003	83358	WET DI	01-AUG-2003 15:46	1.0	1.0					
117	tr212281	BLANK	QC220909	83337	Soil	01-AUG-2003 15:55	1.0	50.0					
118	tr212282	CCV				01-AUG-2003 16:00	1.0	1.0				5	
119	tr212283	CCB				01-AUG-2003 16:12	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151 9=03SS286 10=03SS287

Analyst: Mei Page 4 of 4

Date: 8/10

REPORTING SUMMARY FOR 166566 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166566-004	MET07	08/01/03	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	
166566-004	MET07	08/01/03	10.0	+									+									+
166566-005	MET07	08/01/03	1.0		+		+	+	+	+	+	+		+	+	+	+		+	+	+	+
166566-005	MET07	08/01/03	1.0			+												+				
166566-005	MET07	08/01/03	10.0	+									+									
QC220909	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
QC220909	MET07	08/01/03	1.0																	+		
QC220910	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220911	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220912	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC220912	MET07	08/01/03	10.0												+							
QC220913	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC220913	MET07	08/01/03	10.0												+							
QC220914	MET07	08/01/03	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220914	MET07	08/01/03	5.0																			
QC220914	MET07	08/01/03	50.0	+									+									
QC221049	MET07	08/01/03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary

01-AUG-2003 14:04

Batch Number : 83337
 Date Extracted : 31-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICA
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166566-004		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1					TAL/ICP	
166566-005		Treadwell & Rollo	Soil	1.93	g	100	51.8134	1					TAL/ICP	
166568-001		URS Corporation	Soil	2.47	g	100	40.4858	1					T26/ICP	
166599-007		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1					BA, CU, PB, SB, ZN	mss
166599-028		Treadwell & Rollo	Soil	2.3	g	100	43.4782	1					BA, CU, PB, SB, ZN	
166599-029		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1					BA, CU, PB, SB, ZN	
166599-030		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1					BA, CU, PB, SB, ZN	
166599-031		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1					BA, CU, PB, SB, ZN	
166599-032		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1					BA, CU, PB, SB, ZN	
166599-033		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1					BA, CU, PB, SB, ZN	
166608-008		URS Corporation	Soil	2.2	g	100	45.4545	1					PB	
166608-013		URS Corporation	Soil	1.97	g	100	50.7614	1					PB	
166612-001		Conocophillips Company	Miscell.	2.16	g	100	46.2962	1					V	
166612-002		Conocophillips Company	Miscell.	2.56	g	100	39.0625	1					V	
166634-001		Innovative Technical Solutions	Soil	2.04	g	100	49.0196	1					CU, PB, SB	
166634-002		Innovative Technical Solutions	Soil	2.01	g	100	49.7512	1					CU, PB, SB	
166634-003		Innovative Technical Solutions	Soil	2.27	g	100	44.0528	1					CU, PB, SB	
QC220909	BLANK		Soil	2	g	100	50	1					ICAP	
QC220910	BS		Soil	2	g	100	50	1					ICAP	
QC220911	BSD		Soil	2	g	100	50	1					ICAP	
QC220912	MS		Soil	2.1	g	100	47.6190	1					ICAP	
QC220913	MSD		Soil	2.09	g	100	47.8468	1					ICAP	
QC220914	SER		Soil	2.05	g	100	48.7804	1					ICAP	
QC221049	PDS		Soil	2.05	g	100	48.7804	1					ICAP	

Prep Chemist:

Reviewed By:

Date:

Relinquished By:

Received By:

Date:

7/31/03

B# 8333T

ICAP/M 3050

Sample

Sample
mass (g)final vol.
(ml)filtered
Y/N

Comments

BLK-QC 220909

100

YES

SPIKES

✓ 03SS280

(1.0ML)

✓ 03SS287

↓

Reagents

1:1 HNO3 JT BAKER #402024/072303

HNO3 JT BAKER #405050

H2O2 VWR #42295317

1:1 HCL JT BAKER #402128/0723/03

BS 220910

BS 220911

MS-6599-007 2.10

MSD-6599-007 2.09

MSS-166599-7A 2.05

AASN BS

-28 2.30

-29 2.02

-30 2.11

-31 2.12

-32 2.17

-33 2.227 BS 7/31

166608-008 comp 2.20

L -13 comp 1.97

16662-1 comp 2.16

-2 comp 2.56

166634-001 A 2.04

-002 2.01

-003 2.27

166566-004 2.12

-005 1.93

166568-001 2.47

Comp. -4, -5, 8.

Comp. 9, 10, 11, 12

Comp. A-C

Comp. A-C

Patricia Vergara

07/31/03

52

J. M. B. Jr.

7/31/03

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0 mg/Kg u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0 mg/Kg u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50 mg/Kg u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10 mg/Kg u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25 mg/Kg u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25 mg/Kg u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50 mg/Kg u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0 mg/Kg u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50 mg/Kg u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25 mg/Kg u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50 mg/Kg u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0 mg/Kg u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50 mg/Kg u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0 mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83270
 Date: 07/30/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166561-044	4.3195	10.3609	9.6358	88	12
166561-045	15.1859	21.3048	21.0504	96	4
166561-046	15.5756	21.1404	20.6260	91	9
166561-047	15.1896	22.0744	21.2350	88	12
166566-004	12.0652	18.2941	17.6422	90	10
166566-005	15.3672	22.3057	21.9107	94	6
166590-001	15.5512	21.9278	21.8780	99	1
166590-002	11.1941	18.8528	18.8351	100	0
166590-003	15.2848	21.6515	21.6452	100	0
166590-004	15.8919	23.0016	22.9139	99	1
QC220656	15.4595	21.3409	21.2671	99	1
of 166590-004			RPD:	0.0%	1.7%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83270
 Date Started: 30-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166561-044		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-045		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-046		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166561-047		Treadwell & Rollo	Soil	MOISTURE	31-JUL-2003
166566-004		Treadwell & Rollo	Soil	MOISTURE	01-AUG-2003
166566-005		Treadwell & Rollo	Soil	MOISTURE	01-AUG-2003
166590-001		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-002		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-003		Innovative Technic	Soil	MOISTURE	30-JUL-2003
166590-004		Innovative Technic	Soil	MOISTURE	30-JUL-2003
QC220656	SDUP	of 166590-004	Soil	MOISTURE	

7/29/03

83270

Sample	dish#	tare wt	init wt	fin wt	Comment
Blank	11B	4.2260	-	4.2257	
166561-44	10D	4.3195	10.3609	9.6358	
-45	T	15.1859	21.3048	21.0504	
-46	5X	15.5756	21.1404	20.6260	
-47	21X	15.1896	22.0744	21.4350	
166566-4	12A	12.0652	18.2941	17.6422	
-5	42	15.3672	22.3057	21.9107	
166590-1	11	15.5512	21.9278	21.8780	
-2	XE	11.1941	18.8528	18.8351	
-3	6C	15.2848	21.6515	21.6452	
-4	1D	15.8919	23.0016	22.9139	
-4 Dup	C	15.4595	21.3409	21.2671	

Oven temp: 106°C

time in: 4:10pm

time out: 8:45 A.M. on: 7/30/03

Continued on Page

Read and Understood By

K. Dutsch

7/29/03

Signed

Date

60

R. Mennel

Signed

7/30/03

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166599

Matrix: Water

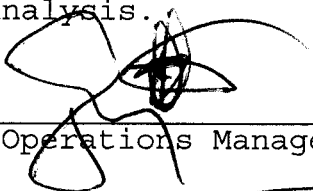
Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

Sample ID
LCPSB03 [0.3]RB [1]

Lab ID
166599-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: 
Operations Manager

Date: 8/11/03

Signature: 
Project Manager

Date: 8/11/03

Laboratory Number: **166599**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/29/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water sample received from the above referenced project. The sample was received cold and intact.

Metals: The matrix spike recoveries for antimony were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The %D of the continuing calibration standard (CCS) tr212111 was outside acceptance limits for antimony, however, the standard did not bracket any reported results. No other analytical problems were encountered.

Chain of Custody

1166599

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

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☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 1 of 3

Site Name:

Presidio - Firing Range

Job Number:

2893.07

Project Manager/Contact:

Dorinda Sherman

Samplers:

Dorinda Sherman

Recorder (Signature Required):

Dorinda Sherman

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested	Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃				
-1 BAPSB18C0.3	7-28-03	1055		X									19 metals - per 2893.07
-2 BAPSB18C17	7-28-03	1100		X									project notes
-3 BAPSB17C0.3	7-28-03	1120		X									BAPSB17C0.3 [MSD]
-4 BAPSB17C17	7-28-03	1125		X									BAPSB17C17 [MSD]
-5 DUPOT2803A	7-28-03	1128		X									5 metals - Ba, Pb, Cu, Fe, Zn
-6 BAPSB14C0.3	7-28-03	1210		X									level 4
-7 BAPSB14C17	7-28-03	1215		X									DATA VALIDATION
-8 LCP5805C0.3	7-28-03	1425		X									
-9 LCP5805C17	7-28-03	1430		X									
-10 LCP5804C0.3	7-28-03	1445		X									
-11 LCP5804C17	7-28-03	1510		X									
-12 LCP5801C0.3	7-28-03	1515		X									
-13 LCP5801C17	7-28-03	1520		X									
Relinquished by: (Signature)	Date	Time											
Relinquished by: (Signature)	Date	Time											
Relinquished by: (Signature)	Date	Time											
Sent to Laboratory (Name):	Curtis & Tompkins												
Laboratory Comments/Notes:													

Turnaround Time

31d

Relinquished by: (Signature)

Dorinda Sherman

Date

7/29/03

Time

1110

Received by: (Signature)

Dorinda Sherman

Date

7/27/03

Time

1110

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by Lab: (Signature)

Date

Time

Method of Shipment

☒ Lab courier

Date

Time

Received by: (Signature)

Date

Time

☐ Hand Carried ☐ Private Courier (Co. Name) ☐ Fed Ex ☐ Airborne ☐ UPS

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COC Number: 002865

needed in lab

166599

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Page 2 of 2

Treadwell & Rollo

Environmental and Geotechnical Consultant

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☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: 2. Presidio Firing Range

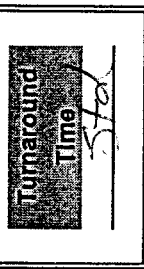
Job Number: 2893.07

Project Manager/Contact: Dorinda Shipman

Samplers: DISPER

Recorder (Signature Required): [Signature]

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix				No. Containers & Preservative				Analysis Requested	Hold	Remarks	
				Soil	Water	Other	Other	Soil	H ₂ SO ₄	HNO ₃	Ice				Other
-14 LCP5803C0.33 RB C17	7/28/03	1550			X										15 metals - Ba, Pb, Zn
-15 LCP5803C0.33 7-28-03	7-28-03	1548			X										19 metals - per 2893.07 project setup
-16 LCP5803C17 7/28/03	7/28/03	1551			X										Level 4
-17 LCP5802C17 7-28-03	7-28-03	1535			X										Data Validation
-18 LCP5802C0.33 7/28/03	7/28/03	1526			X										
-19 CHPSB18C0.33 7/29/03	7/29/03	0900			X										
-20 CHPSB18C17 7/29/03	7/29/03	0905			X										
-21 CHPSB18C27 7/29/03	7/29/03	0907			X										
-22 DU8072903A 7/29/03	7/29/03	0930			X										
-23 CHPSB09C27 7/29/03	7/29/03	0945			X										
-24 CHPSB09C37 7/29/03	7/29/03	0950			X										
-25 CHPSB09C47 7/29/03	7/29/03	0955			X										
Relinquished by: (Signature) <u>[Signature]</u> Date <u>7/29/03</u> Time <u>1110</u>															
Relinquished by: (Signature) _____ Date _____ Time _____															
Relinquished by: (Signature) _____ Date _____ Time _____															
Sent to Laboratory (Name): <u>CFT</u>															
Laboratory Comments/Notes:															



White Copy - Original

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COC Number: 002835

mid intact in box

166599

33
Page 4 of 4**Treadwell & Rollo**
Environmental and Geotechnical Consultant**CHAIN OF CUSTODY RECORD**

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☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name:

Piedra Blanca Range

Job Number:

2893.07

Project Manager/Contact:

Dan Shipman

Samplers:

NS/RLG

Recorder (Signature Required):

R. R. Rollo

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested	Hold	Silica gel clean-up	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃						Ice
-26 CHPSB10C23	7-29-03	1025		X											19 metals
-27 DUF012A03B7	7/29/03	1028		X											per 2893.07
-28 CHPSB10C33	7/29/03	1033		X											project setup
-29 CHPSB10C43	7/29/03	1035		X											5 metals
-30 CHPSB16C033	7/29/03	1045		X											per 2893.07
-31 DUF012A03C	7/29/03	1052		X											project setup
-32 CHPSB16C13	7/29/03	1048		X											
-33 CHPSB16C23	7/29/03	1055		X											
Level 4 Data Validation															
Relinquished by: (Signature) <u>R. R. Rollo</u> Date <u>7/29/03</u> Time <u>1110</u>															
Relinquished by: (Signature) <u>R. R. Rollo</u> Date <u>7/29/03</u> Time <u>1110</u>															
Relinquished by: (Signature) <u>R. R. Rollo</u> Date <u>7/29/03</u> Time <u>1110</u>															
Sent to Laboratory (Name): <u>C+7</u>															
Laboratory Comments/Notes:															

Turnaround
Time
std

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS
☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: **002836**

need indicator for

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166599 Date Received: 7-29-03 Number of Coolers: 1
Client: Treadwell J Rollo Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-29-03 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: wet Temperature: 4.2

B. Login Phase

Date Logged In: 7-29-03 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: in ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Results & QC Summary

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB03 [0.3]RB [1]	Batch#:	83290
Matrix:	Water	Sampled:	07/28/03
Units:	ug/L	Received:	07/29/03
Diln Fac:	1.000	Prepared:	07/30/03

Type: **SAMPLE** Lab ID: **166599-014**

Analyte	Result	RL	Analyzed
Antimony	ND	60	08/01/03
Barium	ND	10	07/31/03
Copper	ND	10	07/31/03
Lead	ND	3.0	07/31/03
Zinc	ND	20	07/31/03

Type: **BLANK** Analyzed: **07/31/03**
 Lab ID: **QC220724**

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83290
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220725

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	500.0	569.0	114	80-120	08/01/03
Barium	2,000	2,050	103	80-120	07/31/03
Copper	250.0	255.0	102	80-120	07/31/03
Lead	100.0	101.0	101	80-120	07/31/03
Zinc	500.0	499.0	100	80-120	07/31/03

Type: BSD Lab ID: QC220726

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	500.0	566.0	113	80-120	1	20	08/01/03
Barium	2,000	2,060	103	80-120	0	20	07/31/03
Copper	250.0	255.0	102	80-120	0	20	07/31/03
Lead	100.0	102.0	102	80-120	1	20	07/31/03
Zinc	500.0	501.0	100	80-120	0	20	07/31/03

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83290
MSS Lab ID:	166554-002	Sampled:	07/25/03
Matrix:	Water	Received:	07/25/03
Units:	ug/L	Prepared:	07/30/03
Diln Fac:	1.000	Analyzed:	07/31/03

Type: MS Lab ID: QC220727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	690.0	138 *	75-125
Barium	350.0	2,000	2,360	101	75-125
Copper	3.780	250.0	297.0	117	75-125
Lead	<1.300	100.0	94.10	94	75-125
Zinc	341.0	500.0	883.0	108	75-125

Type: MSD Lab ID: QC220728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	704.0	141 *	75-125	2	20
Barium	2,000	2,370	101	75-125	0	20
Copper	250.0	301.0	119	75-125	1	20
Lead	100.0	97.80	98	75-125	4	20
Zinc	500.0	881.0	108	75-125	0	20

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
 Segnum : 73305699125
 Filename : tr212087
 IDF : 1.0
 PDF : 1.0
 Run type : MSS
 Samplenum: 166554-002
 Matrix : Water
 Batchnum : 83290
 Inj : 31-JUL-2003 17:25
 Units : ug/L

Instid : MET07
 Segnum : 73305699126
 Filename : tr212088
 IDF : 5.0
 PDF : 1.0
 Run type : SER
 Samplenum: QC220729
 Matrix : Water
 Batchnum : 83290
 Inj : 31-JUL-2003 17:29

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	457	100	977	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	28.8	5.00	ND	25.0	--	10	u
Barium	350	10.0	336	50.0	4	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	ND	5.00	ND	25.0	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	11.0	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	10500	100	10400	500	1	10	u
Lead	ND	3.00	ND	15.0	--	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	10100	10.0	9950	50.0	1	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	8.07	5.00	ND	25.0	--	10	u
Vanadium	36.3	10.0	ND	50.0	--	10	u
Zinc	341	20.0	338	100	1	10	u
Titanium	36.8	10.0	56.0	50.0	--	10	u

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699137
Filename : tr212100
IDF : 1.0
PDF : 1.0
Run type : PDS
Samplenum: QC220938
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 18:52
Units : ug/L

MSS : 166554-002

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73305699125	457.0	2000	2573 106	28-139	u
Antimony	73305699125	ND	500	656.0 131	38-136	u
Arsenic	73305699125	28.80	100	144.0 115	60-138	u
Barium	73305699125	350.0	2000	2330 99	44-138	u
Beryllium	73305699125	0.1880	50	53.00 106	62-126	u
Cadmium	73305699125	1.600	50	51.60 100	54-129	u
Calcium	73305699136	42100	20000	689000 >LR -765	36-135	:>u
Chromium	73305699125	11.00	200	212.0 101	55-129	u
Cobalt	73305699125	1.390	500	513.0 102	54-127	u
Copper	73305699125	3.780	250	299.0 118	57-128	u
Iron	73305699125	10490	1000	12270 178	29-132	:u
Lead	73305699125	ND	100	105.0 105	33-145	u
Magnesium	*** usable MSS data not found ***					
Manganese	73305699125	10100	50	10500 800	32-146	:u
Molybdenum	73305699125	7.530	400	454.0 112	52-130	u
Nickel	73305699125	15.30	500	528.0 103	50-132	u
Selenium	73305699125	ND	100	121.0 121	49-140	u
Silver	73305699125	ND	50	58.30 117	36-137	u
Thallium	73305699125	8.070	100	122.0 114	31-141	u
Vanadium	73305699125	36.30	500	561.0 105	53-135	u
Zinc	73305699125	341.0	500	900.0 112	39-142	u
Titanium	73305699125	36.80	1000	1080 104	58-122	u

:recovery not meaningful >=>LR u=use

Page 1 of 1

Method: 6010B Standard: blank
 Run Time: 07/31/03 06:45:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.000	.000	-.087	.000	.000
SDev	.001	.000	.000	.000	.000	.000	.000
%RSD	84.7	10.7	77.2	218.	.242	82.1	23.9
#1	-.000	.001	-.000	.000	-.087	.000	.000
#2	-.001	.001	-.000	-.000	-.087	.000	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	.000	-.001
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	46.9	3.20	71.5	44.9	38.8	97.8	36.3
#1	-.000	-.003	.001	.000	.000	.000	-.001
#2	-.000	-.002	.000	.000	.000	.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.004	.0262	-.0066
SDev	.000	.000	.000	.000	.000	.0001	.0000
%RSD	20.7	236.	.283	11.7	.627	.3532	.5123
#1	.001	-.000	-.000	.000	.004	.0262	-.0066
#2	.001	.000	-.000	.000	.004	.0263	-.0066
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0005	.0001	.000	.054			
SDev	.0001	.0000	.000	.000			
%RSD	26.66	10.60	29.0	.283			
#1	-.0004	.0001	.000	.054			
#2	-.0005	.0001	.000	.054			

Method: 6010B Standard: cst hi
 Run Time: 07/31/03 06:52:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.140	.087	.034	5.04	.586	.197	.046
SDev	.004	.003	.001	.01	.001	.000	.000
%RSD	3.01	3.31	1.71	.128	.105	.172	.076
#1	.137	.085	.034	5.04	.585	.198	.046
#2	.143	.089	.035	5.03	.586	.197	.046
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.127	.120	.138	.140	.243	.323	.037
SDev	.000	.000	.001	.000	.002	.000	.000
%RSD	.292	.099	.506	.303	.677	.118	.615
#1	.127	.120	.139	.140	.242	.323	.037
#2	.127	.120	.138	.140	.244	.323	.038
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.045	.074	.024	.190	.029	.0529	.0582
SDev	.001	.000	.000	.000	.000	.0001	.0000
%RSD	2.40	.208	.037	.124	.033	.1275	.0046
#1	.046	.074	.024	.190	.029	.0529	.0582
#2	.044	.074	.024	.190	.029	.0528	.0582
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0238	.0357	.204	1.82			
SDev	.0002	.0001	.000	.00			
%RSD	.6685	.2492	.050	.023			
#1	.0237	.0357	.204	1.82			
#2	.0239	.0358	.205	1.82			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	7049.65	5.10082	07/31/03 06:52:30
Sb206A	206.832	Multiple	Standards	11321.5	-9.05347	07/31/03 06:52:30
As1890	189.042	Multiple	Standards	14402.8	4.09173	07/31/03 06:52:30
Ba4934	493.409	Multiple	Standards	198.578	-.023516	07/31/03 06:52:30
Be3130	313.042	Multiple	Standards	143.606	12.4607	07/31/03 06:52:30
Cd2265	226.502	Multiple	Standards	506.590	-.155130	07/31/03 06:52:30
Cr2677	267.716	Multiple	Standards	4332.65	-.952905	07/31/03 06:52:30
Co2286	228.616	Multiple	Standards	3935.67	.696472	07/31/03 06:52:30
Cu3247	324.754	Multiple	Standards	1632.94	4.07111	07/31/03 06:52:30
Pb2203	220.351	Multiple	Standards	3635.38	-2.28473	07/31/03 06:52:30
Pb220A	220.352	Multiple	Standards	3547.94	-.894247	07/31/03 06:52:30
Mo2020	202.030	Multiple	Standards	4120.70	-1.21684	07/31/03 06:52:30
Ni2316	231.604	Multiple	Standards	1545.98	-.323092	07/31/03 06:52:30
Se1960	196.021	Multiple	Standards	12951.6	16.6714	07/31/03 06:52:30
Se196A	196.022	Multiple	Standards	11423.2	-13.2365	07/31/03 06:52:30
Ag3280	328.068	Multiple	Standards	1352.67	-.086813	07/31/03 06:52:30
Tl1908	190.864	Multiple	Standards	20447.6	4.38897	07/31/03 06:52:30
V_2924	292.402	Multiple	Standards	2634.98	-.523252	07/31/03 06:52:30
Zn2138	213.856	Multiple	Standards	4236.82	-18.6885	07/31/03 06:52:30
Al3082	308.215	Multiple	Standards	38014.8	-997.512	07/31/03 06:52:30
Ca3179	317.933	Multiple	Standards	30841.1	204.224	07/31/03 06:52:30
Fe2714	271.441	Multiple	Standards	43039.6	19.3929	07/31/03 06:52:30
Mg2790	279.079	Multiple	Standards	56067.1	-3.91061	07/31/03 06:52:30
Mn2576	257.610	Multiple	Standards	489.790	-.152377	07/31/03 06:52:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*07/31/03 06:52:30
Ti3349	334.941	Multiple	Standards	567.556	-30.6263	07/31/03 06:52:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699001

Run Name :
Filename : tr211962

Injected : 31-JUL-2003 06:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.4000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	507.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1006.000	ug/L	1	5	
Lead	500.0000	505.0000	ug/L	1	5	
Magnesium	2000.000	2021.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	505.0000	ug/L	1	5	
Selenium	500.0000	505.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699002

Run Name :
Filename : tr211963

Injected : 31-JUL-2003 07:16
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	464.9000	ug/L	-7	10	
Antimony	500.0000	535.0000	ug/L	7	10	
Arsenic	250.0000	245.0000	ug/L	-2	10	
Barium	500.0000	486.0000	ug/L	-3	10	
Beryllium	50.00000	50.00000	ug/L	0	10	
Cadmium	50.00000	47.70000	ug/L	-5	10	
Calcium	1000.000	1027.000	ug/L	3	10	
Chromium	100.0000	98.90000	ug/L	-1	10	
Cobalt	250.0000	245.0000	ug/L	-2	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	479.0000	ug/L	-4	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	995.1000	ug/L	0	10	
Manganese	50.00000	49.10000	ug/L	-2	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	248.0000	ug/L	-1	10	
Selenium	250.0000	243.0000	ug/L	-3	10	
Silver	50.00000	50.50000	ug/L	1	10	
Thallium	250.0000	228.0000	ug/L	-9	10	
Titanium	500.0000	504.0000	ug/L	1	10	
Vanadium	250.0000	246.0000	ug/L	-2	10	
Zinc	50.00000	48.00000	ug/L	-4	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699004

Run Name :
Filename : tr211965

Injected : 31-JUL-2003 07:35
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	100.4000	ug/L	0	50	
Antimony	60.00000	70.80000	ug/L	18	50	
Arsenic	5.000000	4.080000	ug/L	-18	50	
Barium	10.00000	9.650000	ug/L	-4	50	
Beryllium	2.000000	1.570000	ug/L	-22	50	
Cadmium	5.000000	4.390000	ug/L	-12	50	
Chromium	10.00000	8.720000	ug/L	-13	50	
Cobalt	20.00000	19.10000	ug/L	-5	50	
Copper	10.00000	10.80000	ug/L	8	50	
Iron	100.0000	77.99000	ug/L	-22	50	
Lead	3.000000	2.920000	ug/L	-3	50	
Manganese	10.00000	9.810000	ug/L	-2	50	
Molybdenum	20.00000	16.90000	ug/L	-16	50	
Nickel	20.00000	18.80000	ug/L	-6	50	
Selenium	5.000000	7.220000	ug/L	44	50	
Silver	5.000000	4.080000	ug/L	-18	50	
Thallium	5.000000	6.350000	ug/L	27	50	
Vanadium	10.00000	10.00000	ug/L	0	50	
Zinc	20.00000	20.30000	ug/L	2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699014

Run Name :
Filename : tr211976

Injected : 31-JUL-2003 08:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	482.5000	ug/L	-4	10	
Antimony		500.0000	489.0000	ug/L	-2	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	502.0000	ug/L	0	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	50.70000	ug/L	1	10	
Calcium		1000.000	1053.000	ug/L	5	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	106.0000	ug/L	6	10	
Iron		500.0000	501.6000	ug/L	0	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	51.10000	ug/L	2	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	51.70000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699026

Run Name :
Filename : tr211988

Injected : 31-JUL-2003 09:35
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	757.4000	ug/L	1	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	745.0000	ug/L	-1	10	
Beryllium		75.00000	77.80000	ug/L	4	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1552.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	793.6000	ug/L	6	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1547.000	ug/L	3	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699038

Run Name :
Filename : tr212000

Injected : 31-JUL-2003 10:38
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	259.6000	ug/L	4	10	
Antimony		250.0000	275.0000	ug/L	10	10	
Arsenic		125.0000	130.0000	ug/L	4	10	
Barium		250.0000	252.0000	ug/L	1	10	
Beryllium		25.00000	25.90000	ug/L	4	10	
Cadmium		25.00000	25.00000	ug/L	0	10	
Calcium		500.0000	517.0000	ug/L	3	10	
Chromium		50.00000	51.30000	ug/L	3	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	54.90000	ug/L	10	10	
Iron		250.0000	273.7000	ug/L	9	10	
Lead		125.0000	130.0000	ug/L	4	10	
Magnesium		500.0000	519.5000	ug/L	4	10	
Manganese		25.00000	25.80000	ug/L	3	10	
Molybdenum		250.0000	254.0000	ug/L	2	10	
Nickel		125.0000	128.0000	ug/L	2	10	
Selenium		125.0000	130.0000	ug/L	4	10	
Silver		25.00000	25.40000	ug/L	2	10	
Thallium		125.0000	124.0000	ug/L	-1	10	
Titanium		250.0000	266.0000	ug/L	6	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.40000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699050

Run Name :
Filename : tr212012

Injected : 31-JUL-2003 11:45
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	506.4000	ug/L	1		10	
Antimony		500.0000	460.0000	ug/L	-8		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	499.0000	ug/L	0		10	
Beryllium		50.00000	51.70000	ug/L	3		10	
Cadmium		50.00000	49.60000	ug/L	-1		10	
Calcium		1000.000	960.6000	ug/L	-4		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	250.0000	ug/L	0		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	475.4000	ug/L	-5		10	
Lead		250.0000	245.0000	ug/L	-2		10	
Magnesium		1000.000	1011.000	ug/L	1		10	
Manganese		50.00000	48.90000	ug/L	-2		10	
Molybdenum		500.0000	482.0000	ug/L	-4		10	
Nickel		250.0000	255.0000	ug/L	2		10	
Selenium		250.0000	250.0000	ug/L	0		10	
Silver		50.00000	50.20000	ug/L	0		10	
Thallium		250.0000	238.0000	ug/L	-5		10	
Titanium		500.0000	510.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.00000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699062

Run Name :
Filename : tr212024

Injected : 31-JUL-2003 12:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	757.5000	ug/L	1		10	
Antimony		750.0000	774.0000	ug/L	3		10	
Arsenic		375.0000	394.0000	ug/L	5		10	
Barium		750.0000	748.0000	ug/L	0		10	
Beryllium		75.00000	77.60000	ug/L	3		10	
Cadmium		75.00000	75.60000	ug/L	1		10	
Calcium		1500.000	1457.000	ug/L	-3		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	374.0000	ug/L	0		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	731.4000	ug/L	-2		10	
Lead		375.0000	373.0000	ug/L	-1		10	
Magnesium		1500.000	1577.000	ug/L	5		10	
Manganese		75.00000	72.30000	ug/L	-4		10	
Molybdenum		750.0000	739.0000	ug/L	-1		10	
Nickel		375.0000	383.0000	ug/L	2		10	
Selenium		375.0000	378.0000	ug/L	1		10	
Silver		75.00000	72.90000	ug/L	-3		10	
Thallium		375.0000	372.0000	ug/L	-1		10	
Titanium		750.0000	757.0000	ug/L	1		10	
Vanadium		375.0000	368.0000	ug/L	-2		10	
Zinc		75.00000	77.10000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699074

Run Name :
Filename : tr212036

Injected : 31-JUL-2003 13:42
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	506.8000	ug/L	1		10	
Antimony		500.0000	504.0000	ug/L	1		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	485.0000	ug/L	-3		10	
Beryllium		50.00000	51.70000	ug/L	3		10	
Cadmium		50.00000	49.00000	ug/L	-2		10	
Calcium		1000.000	926.8000	ug/L	-7		10	
Chromium		100.0000	99.00000	ug/L	-1		10	
Cobalt		250.0000	243.0000	ug/L	-3		10	
Copper		100.0000	100.0000	ug/L	0		10	
Iron		500.0000	457.3000	ug/L	-9		10	
Lead		250.0000	246.0000	ug/L	-2		10	
Magnesium		1000.000	985.0000	ug/L	-2		10	
Manganese		50.00000	48.10000	ug/L	-4		10	
Molybdenum		500.0000	500.0000	ug/L	0		10	
Nickel		250.0000	246.0000	ug/L	-2		10	
Selenium		250.0000	241.0000	ug/L	-4		10	
Silver		50.00000	50.20000	ug/L	0		10	
Thallium		250.0000	238.0000	ug/L	-5		10	
Titanium		500.0000	502.0000	ug/L	0		10	
Vanadium		250.0000	244.0000	ug/L	-2		10	
Zinc		50.00000	49.80000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699084

Run Name :
Filename : tr212046

Injected : 31-JUL-2003 14:29
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	795.5000	ug/L	6	10	
Antimony		750.0000	790.0000	ug/L	5	10	
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	74.20000	ug/L	-1	10	
Calcium		1500.000	1464.000	ug/L	-2	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	729.5000	ug/L	-3	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	71.40000	ug/L	-5	10	
Molybdenum		750.0000	729.0000	ug/L	-3	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	374.0000	ug/L	0	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	355.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.30000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699096

Run Name :
Filename : tr212058

Injected : 31-JUL-2003 15:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	537.7000	ug/L	8	10	
Antimony		500.0000	467.0000	ug/L	-7	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	911.5000	ug/L	-9	10	
Chromium		100.0000	98.70000	ug/L	-1	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	524.0000	ug/L	5	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	993.8000	ug/L	-1	10	
Manganese		50.00000	47.90000	ug/L	-4	10	
Molybdenum		500.0000	481.0000	ug/L	-4	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	48.40000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	51.90000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699108

Run Name :
Filename : tr212070

Injected : 31-JUL-2003 16:08
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	510.2000	ug/L	2		10	
Antimony		500.0000	476.0000	ug/L	-5		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	494.0000	ug/L	-1		10	
Beryllium		50.00000	51.10000	ug/L	2		10	
Cadmium		50.00000	49.20000	ug/L	-2		10	
Calcium		1000.000	1000.000	ug/L	0		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	546.6000	ug/L	9		10	
Lead		250.0000	236.0000	ug/L	-6		10	
Magnesium		1000.000	1028.000	ug/L	3		10	
Manganese		50.00000	50.70000	ug/L	1		10	
Molybdenum		500.0000	477.0000	ug/L	-5		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	239.0000	ug/L	-4		10	
Silver		50.00000	49.10000	ug/L	-2		10	
Thallium		250.0000	243.0000	ug/L	-3		10	
Titanium		500.0000	515.0000	ug/L	3		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.10000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699120

Run Name :
Filename : tr212082

Injected : 31-JUL-2003 17:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	773.1000	ug/L	3	10	
Antimony		750.0000	826.0000	ug/L	10	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.70000	ug/L	2	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1456.000	ug/L	-3	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	795.2000	ug/L	6	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1513.000	ug/L	1	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	71.80000	ug/L	-4	10	
Thallium		375.0000	370.0000	ug/L	-1	10	
Titanium		750.0000	756.0000	ug/L	1	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	75.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699132

Run Name :
Filename : tr212095

Injected : 31-JUL-2003 18:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.1000	ug/L	2	10	
Antimony		750.0000	768.0000	ug/L	2	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1508.000	ug/L	1	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	748.4000	ug/L	0	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1576.000	ug/L	5	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	709.0000	ug/L	-5	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	365.0000	ug/L	-3	10	
Silver		75.00000	71.70000	ug/L	-4	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699139

Run Name :
Filename : tr212103

Injected : 31-JUL-2003 19:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	777.1000	ug/L	4		10	
Antimony		750.0000	813.0000	ug/L	8		10	
Arsenic		375.0000	373.0000	ug/L	-1		10	
Barium		750.0000	725.0000	ug/L	-3		10	
Beryllium		75.00000	74.70000	ug/L	0		10	
Cadmium		75.00000	72.50000	ug/L	-3		10	
Calcium		1500.000	1430.000	ug/L	-5		10	
Chromium		150.0000	148.0000	ug/L	-1		10	
Cobalt		375.0000	363.0000	ug/L	-3		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	717.1000	ug/L	-4		10	
Lead		375.0000	347.0000	ug/L	-7		10	
Magnesium		1500.000	1492.000	ug/L	-1		10	
Manganese		75.00000	72.40000	ug/L	-3		10	
Molybdenum		750.0000	719.0000	ug/L	-4		10	
Nickel		375.0000	367.0000	ug/L	-2		10	
Selenium		375.0000	371.0000	ug/L	-1		10	
Silver		75.00000	72.70000	ug/L	-3		10	
Thallium		375.0000	343.0000	ug/L	-9		10	
Titanium		750.0000	736.0000	ug/L	-2		10	
Vanadium		375.0000	364.0000	ug/L	-3		10	
Zinc		75.00000	74.30000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699147

Run Name :
Filename : tr212111

Injected : 31-JUL-2003 19:51
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	530.8000	ug/L	6	10	
Antimony		500.0000	422.0000	ug/L	-16	10	1 ***
Arsenic		250.0000	243.0000	ug/L	-3	10	
Barium		500.0000	487.0000	ug/L	-3	10	
Beryllium		50.00000	48.40000	ug/L	-3	10	
Cadmium		50.00000	46.80000	ug/L	-6	10	
Calcium		1000.000	947.5000	ug/L	-5	10	
Chromium		100.0000	105.0000	ug/L	5	10	
Cobalt		250.0000	237.0000	ug/L	-5	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	631.2000	ug/L	26	10	1 ***
Lead		250.0000	227.0000	ug/L	-9	10	
Magnesium		1000.000	951.7000	ug/L	-5	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	459.0000	ug/L	-8	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	234.0000	ug/L	-6	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	219.0000	ug/L	-12	10	1 ***
Titanium		500.0000	489.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	47.00000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699159

Run Name :
Filename : tr212123

Injected : 31-JUL-2003 20:52
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	847.8000	ug/L	13	10	1 ***
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	72.80000	ug/L	-3	10	
Cadmium		75.00000	72.00000	ug/L	-4	10	
Calcium		1500.000	1392.000	ug/L	-7	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	821.6000	ug/L	10	10	
Lead		375.0000	346.0000	ug/L	-8	10	
Magnesium		1500.000	1461.000	ug/L	-3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	702.0000	ug/L	-6	10	
Nickel		375.0000	362.0000	ug/L	-3	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	73.40000	ug/L	-2	10	
Thallium		375.0000	336.0000	ug/L	-10	10	
Titanium		750.0000	728.0000	ug/L	-3	10	
Vanadium		375.0000	357.0000	ug/L	-5	10	
Zinc		75.00000	70.90000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699170

Run Name :
Filename : tr212134

Injected : 31-JUL-2003 21:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	557.3000	ug/L	11	10	1 ***
Antimony		500.0000	428.0000	ug/L	-14	10	1 ***
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	47.90000	ug/L	-4	10	
Calcium		1000.000	878.8000	ug/L	-12	10	1 ***
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	98.80000	ug/L	-1	10	
Iron		500.0000	560.5000	ug/L	12	10	1 ***
Lead		250.0000	232.0000	ug/L	-7	10	
Magnesium		1000.000	937.8000	ug/L	-6	10	
Manganese		50.00000	47.70000	ug/L	-5	10	
Molybdenum		500.0000	460.0000	ug/L	-8	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	227.0000	ug/L	-9	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	57.50000	ug/L	15	10	1 ***

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699182

Run Name :
Filename : tr212146

Injected : 31-JUL-2003 22:47
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	841.8000	ug/L	12	10	1 ***
Antimony		750.0000	735.0000	ug/L	-2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	73.70000	ug/L	-2	10	
Cadmium		75.00000	72.70000	ug/L	-3	10	
Calcium		1500.000	1384.000	ug/L	-8	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	810.0000	ug/L	8	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1454.000	ug/L	-3	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	683.0000	ug/L	-9	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	737.0000	ug/L	-2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699195

Run Name :
Filename : tr212159

Injected : 31-JUL-2003 23:55
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	657.2000	ug/L	31	10	1 ***
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	944.4000	ug/L	-6	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	614.8000	ug/L	23	10	1 ***
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	1031.000	ug/L	3	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	49.00000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699003
Filename: tr211964

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 31-JUL-2003 07:21

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[6.6100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1390]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	[29.600]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4150]	10.00000	ug/L	<RL	
Copper	[1.0600]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.2460]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3600]	20.00000	ug/L	<RL	
Nickel	[0.0200]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.0480]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699015
Filename: tr211977

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 08:43

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[19.200]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2730]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0330]		5.000000	ug/L	<	RL
Calcium	[78.970]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.9200]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[1.7400]		3.000000	ug/L	<	RL
Magnesium	[0.1579]		500.0000	ug/L	<	RL
Manganese	[0.0900]		10.00000	ug/L	<	RL
Molybdenum	[4.5700]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[4.1200]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.5800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4650]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699027
Filename: tr211989

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 09:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.1360]	5.000000	ug/L	<RL	
Barium	[0.0950]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1650]	5.000000	ug/L	<RL	
Calcium	[75.650]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2480]	10.00000	ug/L	<RL	
Copper	[2.9800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.8800]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[0.3940]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4000]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699039
Filename: tr212001

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 10:55

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1680]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.6420]	10.00000	ug/L	<RL	
Copper	[2.6400]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[1.4900]	20.00000	ug/L	<RL	
Nickel	[0.0340]	20.00000	ug/L	<RL	
Selenium	[2.0000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.9900]	10.00000	ug/L	<RL	
Vanadium	[0.0250]	10.00000	ug/L	<RL	
Zinc	[1.5900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699051
Filename: tr212013

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 11:52

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[19.570]	100.0000	ug/L	<RL	
Antimony	[3.7000]	60.00000	ug/L	<RL	
Arsenic	[2.5100]	5.000000	ug/L	<RL	
Barium	[0.0900]	10.00000	ug/L	<RL	
Beryllium	[0.7220]	2.000000	ug/L	<RL	
Cadmium	[0.2190]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4420]	10.00000	ug/L	<RL	
Copper	[1.4800]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.0110]	10.00000	ug/L	<RL	
Molybdenum	[2.3800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.3100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.9630]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699063
Filename: tr212025

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 12:43

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[43.430]	100.0000	ug/L	<RL		
Antimony	[4.9800]	60.00000	ug/L	<RL		
Arsenic	[2.0200]	5.000000	ug/L	<RL		
Barium	[0.1570]	10.00000	ug/L	<RL		
Beryllium	[1.5000]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2540]	10.00000	ug/L	<RL		
Copper	[0.9300]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.7300]	3.000000	ug/L	<RL		
Magnesium	[15.600]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[5.4100]	20.00000	ug/L	<RL		
Nickel	[0.1520]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.1540]	5.000000	ug/L	<RL		
Thallium	[4.1100]	5.000000	ug/L	<RL		
Titanium	[3.6600]	10.00000	ug/L	<RL		
Vanadium	[0.0370]	10.00000	ug/L	<RL		
Zinc	[1.8100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699075
Filename: tr212037

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 13:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[24.400]	60.00000	ug/L	<	RL
Arsenic	[0.3090]	5.000000	ug/L	<	RL
Barium	[0.1530]	10.00000	ug/L	<	RL
Beryllium	[0.0200]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[0.5926]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.3570]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[2.9780]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[6.4100]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[3.8400]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.2000]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699085
Filename: tr212047

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 14:34

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[44.790]	100.0000	ug/L	<RL	
Antimony	[9.8400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1410]	10.00000	ug/L	<RL	
Beryllium	[0.9540]	2.000000	ug/L	<RL	
Cadmium	[0.4350]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.5570]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.400]	100.0000	ug/L	<RL	
Lead	[0.3050]	3.000000	ug/L	<RL	
Magnesium	[15.400]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.1300]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8700]	5.000000	ug/L	<RL	
Titanium	[4.3700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.7500]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699097
Filename: tr212059

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 15:24

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[71.800]	100.0000	ug/L	<RL	
Antimony	[11.400]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2800]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.4050]	5.000000	ug/L	<RL	
Calcium	[5.9240]	500.0000	ug/L	<RL	
Chromium	[0.3530]	10.00000	ug/L	<RL	
Cobalt	[0.6800]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[26.160]	100.0000	ug/L	<RL	
Lead	[2.7700]	3.000000	ug/L	<RL	
Magnesium	[9.3990]	500.0000	ug/L	<RL	
Manganese	[0.4530]	10.00000	ug/L	<RL	
Molybdenum	[7.7700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.1980]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[7.2900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[2.2800]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699109
Filename: tr212071

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 16:18

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[5.9670]	100.0000	ug/L	<RL	
Antimony	[49.100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2430]	10.00000	ug/L	<RL	
Beryllium	[0.0300]	2.000000	ug/L	<RL	
Cadmium	[0.1220]	5.000000	ug/L	<RL	
Calcium	[1.3260]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[1.0600]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.1430]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.4370]	500.0000	ug/L	<RL	
Manganese	[0.2190]	10.00000	ug/L	<RL	
Molybdenum	[2.9100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.4300]	5.000000	ug/L	<RL	
Silver	[0.5470]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.6090]	10.00000	ug/L	<RL	
Vanadium	[0.1360]	10.00000	ug/L	<RL	
Zinc	[2.5200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699121
Filename: tr212083

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 17:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[29.590]	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[0.4750]	5.000000	ug/L	<	RL
Barium	[0.2730]	10.00000	ug/L	<	RL
Beryllium	[0.9160]	2.000000	ug/L	<	RL
Cadmium	[0.1030]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	[0.2520]	10.00000	ug/L	<	RL
Cobalt	[0.1530]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[17.730]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[8.4290]	500.0000	ug/L	<	RL
Manganese	[0.3260]	10.00000	ug/L	<	RL
Molybdenum	[4.2500]	20.00000	ug/L	<	RL
Nickel	[0.1990]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.5260]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.8200]	10.00000	ug/L	<	RL
Vanadium	[0.1360]	10.00000	ug/L	<	RL
Zinc	[2.7100]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699133
Filename: tr212096

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 18:37

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[13.700]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1430]	10.00000	ug/L	<	RL
Beryllium	[0.1250]	2.000000	ug/L	<	RL
Cadmium	[0.3880]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	[0.2760]	10.00000	ug/L	<	RL
Cobalt	[0.9370]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[17.740]	500.0000	ug/L	<	RL
Manganese	[0.2150]	10.00000	ug/L	<	RL
Molybdenum	[0.6220]	20.00000	ug/L	<	RL
Nickel	[0.0350]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[1.3600]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[9.5900]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[8.9100]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699140
Filename: tr212104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 19:15

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[77.770]	100.0000	ug/L	<	RL
Antimony	[44.800]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.9650]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[10.160]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[28.760]	500.0000	ug/L	<	RL
Manganese	[0.3540]	10.00000	ug/L	<	RL
Molybdenum	[3.5000]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[7.5600]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[6.2600]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699149
Filename: tr212113

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 20:02

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[42.470]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.8180]	5.000000	ug/L	<RL	
Barium	[0.2070]	10.00000	ug/L	<RL	
Beryllium	[0.4450]	2.000000	ug/L	<RL	
Cadmium	[0.0060]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[7.6700]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	104.5000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5910]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.4930]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	6.230000	5.000000	ug/L	<RL	d ***
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699161
Filename: tr212125

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 21:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[62.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0710]	10.00000	ug/L	<RL	
Beryllium	[0.9420]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[7.4700]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	116.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5050]	10.00000	ug/L	<RL	
Molybdenum	[1.2000]	20.00000	ug/L	<RL	
Nickel	[0.4170]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699172
Filename: tr212136

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 22:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[67.230]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0170]	10.00000	ug/L	<RL	
Beryllium	[1.3200]	2.000000	ug/L	<RL	
Cadmium	[0.0440]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[8.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	128.8000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.6690]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699184
Filename: tr212148

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 31-JUL-2003 23:02

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[72.760]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0230]	10.00000	ug/L	<RL	
Beryllium	[1.1800]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.7600]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	101.9000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5910]	10.00000	ug/L	<RL	
Molybdenum	[0.6930]	20.00000	ug/L	<RL	
Nickel	[0.9090]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	34.60000	20.00000	ug/L	<RL	d ***

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73305699197
Filename: tr212161

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 00:07

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[85.600]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.1100]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[5.4200]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	247.8000	100.0000	ug/L	<RL	d ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[1.4700]	10.00000	ug/L	<RL	
Molybdenum	[0.8780]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699005

Run Name :
Filename : tr211966

Injected : 31-JUL-2003 07:45
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	498200.0	ug/L	0			
Antimony	500.0000	511.0000	ug/L	2	20		
Arsenic	500.0000	529.0000	ug/L	6	20		
Barium	500.0000	491.0000	ug/L	-2	20		
Beryllium	500.0000	512.0000	ug/L	2	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	484000.0	ug/L	-3			
Chromium	500.0000	481.0000	ug/L	-4	20		
Cobalt	500.0000	481.0000	ug/L	-4	20		
Copper	500.0000	530.0000	ug/L	6	20		
Iron	200000.0	187700.0	ug/L	-6			
Lead	1000.000	833.0000	ug/L	-17	20		
Magnesium	500000.0	523000.0	ug/L	5			
Manganese	500.0000	497.0000	ug/L	-1	20		
Molybdenum	500.0000	456.0000	ug/L	-9	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	492.0000	ug/L	-2	20		
Silver	1000.000	1050.000	ug/L	5	20		
Thallium	500.0000	456.0000	ug/L	-9	20		
Titanium	20000.00	2040.000	ug/L	-90			
Vanadium	500.0000	496.0000	ug/L	-1	20		
Zinc	1000.000	998.0000	ug/L	0	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699083

Run Name :
Filename : tr212045

Injected : 31-JUL-2003 14:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	509200.0	ug/L	2		
Antimony	500.0000	490.0000	ug/L	-2	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	517.0000	ug/L	3	20	
Beryllium	500.0000	506.0000	ug/L	1	20	
Cadmium	1000.000	1000.000	ug/L	0	20	
Calcium	500000.0	455700.0	ug/L	-9		
Chromium	500.0000	491.0000	ug/L	-2	20	
Cobalt	500.0000	490.0000	ug/L	-2	20	
Copper	500.0000	530.0000	ug/L	6	20	
Iron	200000.0	181500.0	ug/L	-9		
Lead	1000.000	878.0000	ug/L	-12	20	
Magnesium	500000.0	517600.0	ug/L	4		
Manganese	500.0000	487.0000	ug/L	-3	20	
Molybdenum	500.0000	481.0000	ug/L	-4	20	
Nickel	1000.000	1060.000	ug/L	6	20	
Selenium	500.0000	520.0000	ug/L	4	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	494.0000	ug/L	-1	20	
Titanium	20000.00	2080.000	ug/L	-90		
Vanadium	500.0000	499.0000	ug/L	0	20	
Zinc	1000.000	1040.000	ug/L	4	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699138

Run Name :
Filename : tr212101

Injected : 31-JUL-2003 18:56
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	494800.0	ug/L	-1		
Antimony	500.0000	496.0000	ug/L	-1	20	
Arsenic	500.0000	600.0000	ug/L	20	20	
Barium	500.0000	534.0000	ug/L	7	20	
Beryllium	500.0000	547.0000	ug/L	9	20	
Cadmium	1000.000	1110.000	ug/L	11	20	
Calcium	500000.0	521800.0	ug/L	4		
Chromium	500.0000	543.0000	ug/L	9	20	
Cobalt	500.0000	537.0000	ug/L	7	20	
Copper	500.0000	560.0000	ug/L	12	20	
Iron	200000.0	213000.0	ug/L	7		
Lead	1000.000	1000.000	ug/L	0	20	
Magnesium	500000.0	583000.0	ug/L	17		
Manganese	500.0000	551.0000	ug/L	10	20	
Molybdenum	500.0000	528.0000	ug/L	6	20	
Nickel	1000.000	1200.000	ug/L	20	20	
Selenium	500.0000	573.0000	ug/L	15	20	
Silver	1000.000	963.0000	ug/L	-4	20	
Thallium	500.0000	536.0000	ug/L	7	20	
Titanium	20000.00	2220.000	ug/L	-89		
Vanadium	500.0000	549.0000	ug/L	10	20	
Zinc	1000.000	1110.000	ug/L	11	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699158

Run Name :
Filename : tr212122

Injected : 31-JUL-2003 20:43
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	535100.0	ug/L	7		
Antimony	500.0000	475.0000	ug/L	-5	20	
Arsenic	500.0000	553.0000	ug/L	11	20	
Barium	500.0000	510.0000	ug/L	2	20	
Beryllium	500.0000	476.0000	ug/L	-5	20	
Cadmium	1000.000	957.0000	ug/L	-4	20	
Calcium	500000.0	432800.0	ug/L	-13		
Chromium	500.0000	481.0000	ug/L	-4	20	
Cobalt	500.0000	474.0000	ug/L	-5	20	
Copper	500.0000	525.0000	ug/L	5	20	
Iron	200000.0	180200.0	ug/L	-10		
Lead	1000.000	871.0000	ug/L	-13	20	
Magnesium	500000.0	503200.0	ug/L	1		
Manganese	500.0000	479.0000	ug/L	-4	20	
Molybdenum	500.0000	478.0000	ug/L	-4	20	
Nickel	1000.000	1010.000	ug/L	1	20	
Selenium	500.0000	516.0000	ug/L	3	20	
Silver	1000.000	1070.000	ug/L	7	20	
Thallium	500.0000	465.0000	ug/L	-7	20	
Titanium	20000.00	2040.000	ug/L	-90		
Vanadium	500.0000	498.0000	ug/L	0	20	
Zinc	1000.000	1000.000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73305699194

Run Name :
Filename : tr212158

Injected : 31-JUL-2003 23:48
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	542300.0	ug/L	8			
Antimony	500.0000	485.0000	ug/L	-3	20		
Arsenic	500.0000	563.0000	ug/L	13	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	482.0000	ug/L	-4	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	435600.0	ug/L	-13			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	488.0000	ug/L	-2	20		
Copper	500.0000	531.0000	ug/L	6	20		
Iron	200000.0	184600.0	ug/L	-8			
Lead	1000.000	892.0000	ug/L	-11	20		
Magnesium	500000.0	514500.0	ug/L	3			
Manganese	500.0000	493.0000	ug/L	-1	20		
Molybdenum	500.0000	477.0000	ug/L	-5	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	528.0000	ug/L	6	20		
Silver	1000.000	1080.000	ug/L	8	20		
Thallium	500.0000	474.0000	ug/L	-5	20		
Titanium	20000.00	2070.000	ug/L	-90			
Vanadium	500.0000	507.0000	ug/L	1	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr211962	CS				31-JUL-2003 06:59	1.0	1.0				1	
002	tr211963	ICV				31-JUL-2003 07:16	1.0	1.0				2	
003	tr211964	ICB				31-JUL-2003 07:21	1.0	1.0				3	
004	tr211965	CRI				31-JUL-2003 07:35	1.0	1.0				4	
005	tr211966	ICSAB				31-JUL-2003 07:45	1.0	1.0				4	
006	tr211967	BLANK				31-JUL-2003 07:50	1.0	50.0	2				
007	tr211968	BS				31-JUL-2003 07:57	1.0	50.0					
008	tr211969	BSD				31-JUL-2003 08:01	1.0	50.0					
009	tr211970	MSS				31-JUL-2003 08:06	1.0	47.39336	4				
010	tr211971	SER				31-JUL-2003 08:12	5.0	47.39336	2				
011	tr211972	MS				31-JUL-2003 08:15	1.0	41.66667		1			
012	tr211973	MSD				31-JUL-2003 08:19	1.0	49.75124		1			
013	tr211974	SAMPLE				31-JUL-2003 08:25	1.0	48.30918					
014	tr211976	CCV				31-JUL-2003 08:35	1.0	1.0				5	
015	tr211977	CCB				31-JUL-2003 08:43	1.0	1.0					
016	tr211978	SAMPLE				31-JUL-2003 08:47	1.0	45.66210					
017	tr211979	SAMPLE				31-JUL-2003 08:51	1.0	48.07692					
018	tr211980	SAMPLE				31-JUL-2003 08:55	1.0	48.07692					
019	tr211981	SAMPLE				31-JUL-2003 09:01	1.0	45.24887					
020	tr211982	SAMPLE				31-JUL-2003 09:05	1.0	312.50					
021	tr211983	SAMPLE				31-JUL-2003 09:09	1.0	222.2222					
022	tr211984	SAMPLE				31-JUL-2003 09:16	1.0	50.0					
023	tr211985	SAMPLE				31-JUL-2003 09:20	1.0	45.24887					
024	tr211986	SAMPLE				31-JUL-2003 09:24	1.0	49.01961					
025	tr211987	SAMPLE				31-JUL-2003 09:28	1.0	43.47826					
026	tr211988	CCV				31-JUL-2003 09:35	1.0	1.0				6	
027	tr211989	CCB				31-JUL-2003 09:47	1.0	1.0					
028	tr211990	SER				31-JUL-2003 09:51	5.0	41.49378		1			
029	tr211991	SAMPLE				31-JUL-2003 09:55	1.0	45.24887	1				
030	tr211992	SAMPLE				31-JUL-2003 09:59	1.0	312.50					
031	tr211993	SAMPLE				31-JUL-2003 10:03	1.0	40.65041					
032	tr211994	SAMPLE				31-JUL-2003 10:07	1.0	46.08295					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: newick Date: 7/3/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr211995	SAMPLE	166620-010	83303	Soil	31-JUL-2003 10:11	1.0	46.29630				3:FE=577200	
034	tr211996	SAMPLE	166620-011	83303	Soil	31-JUL-2003 10:15	1.0	43.10345				4:FE=638600	
035	tr211997	SAMPLE	166620-012	83303	Soil	31-JUL-2003 10:19	1.0	40.16064				3:FE=710000	
036	tr211998	SAMPLE	166620-013	83303	Soil	31-JUL-2003 10:22	1.0	48.54369	1			3:FE=476600	
037	tr211999	SAMPLE	166620-014	83303	Soil	31-JUL-2003 10:26	1.0	39.06250				3:FE=635500	
038	tr212000	CCV				31-JUL-2003 10:38	1.0	1.0					7
039	tr212001	CCB				31-JUL-2003 10:55	1.0	1.0					
040	tr212002	SAMPLE	166620-010	83303	Soil	31-JUL-2003 11:02	1.0	46.29630				3:FE=585500	
041	tr212003	SAMPLE	166620-013	83303	Soil	31-JUL-2003 11:06	1.0	48.54369				3:FE=481700	
042	tr212004	MS	QC220620	83259	Soil	31-JUL-2003 11:10	1.0	38.75969				2:FE=218200	
043	tr212005	MSD	QC220621	83259	Soil	31-JUL-2003 11:14	1.0	48.07692				2:FE=207400	
044	tr212006	SAMPLE	166561-005	83259	Soil	31-JUL-2003 11:17	1.0	46.08295				3:FE=201100	
045	tr212007	SAMPLE	166561-016	83259	Soil	31-JUL-2003 11:21	1.0	48.07692				1:FE=169800	
046	tr212008	BLANK	QC220254	83173	Water	31-JUL-2003 11:26	1.0	1.0	2				
047	tr212009	BS	QC220255	83173	Water	31-JUL-2003 11:30	1.0	1.0					
048	tr212010	BSD	QC220256	83173	Water	31-JUL-2003 11:34	1.0	1.0					1
049	tr212011	BLANK	QC220254	83173	Water	31-JUL-2003 11:41	1.0	1.0					
050	tr212012	CCV				31-JUL-2003 11:45	1.0	1.0					5
051	tr212013	CCB				31-JUL-2003 11:52	1.0	1.0					
052	tr212014	MSS	166504-001	83173	Water	31-JUL-2003 12:00	1.0	1.0	1				
053	tr212015	SER	QC220259	83173	Water	31-JUL-2003 12:04	5.0	1.0					
054	tr212016	MSS	166504-001	83173	Water	31-JUL-2003 12:08	1.0	1.0					
055	tr212017	MS	QC220257	83173	Water	31-JUL-2003 12:11	1.0	1.0					
056	tr212018	MSD	QC220258	83173	Water	31-JUL-2003 12:15	1.0	1.0					
057	tr212019	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:18	1.0	1.0	1			2:CA=700700	
058	tr212020	SAMPLE	166512-001	83173	Water	31-JUL-2003 12:22	1.0	1.0				2:CA=689600	
059	tr212021	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:25	1.0	1.0	2			2:MG=616900	
060	tr212022	SAMPLE	166539-001	83173	Water	31-JUL-2003 12:29	1.0	1.0	2			2:MG=611300	
061	tr212023	SAMPLE	166504-002	83173	Water	31-JUL-2003 12:32	1.0	1.0					
062	tr212024	CCV				31-JUL-2003 12:37	1.0	1.0					6
063	tr212025	CCB				31-JUL-2003 12:43	1.0	1.0					
064	tr212026	SAMPLE	166504-003	83173	Water	31-JUL-2003 12:47	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: MEVVA Date: 7/31/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212027	SAMPLE	166504-004	83173	Water	31-JUL-2003 12:50	1.0	1.0	3				2:MG=1416000	
066	tr212028	BLANK	QC220752	83297	Soil	31-JUL-2003 12:54	1.0	50.0	1					
067	tr212029	BS	QC220753	83297	Soil	31-JUL-2003 12:57	1.0	50.0						
068	tr212030	BSD	QC220754	83297	Soil	31-JUL-2003 13:01	1.0	50.0						
069	tr212031	MSS	166603-001	83297	Soil	31-JUL-2003 13:04	1.0	43.29004	4				4:MG=1632000	
070	tr212032	MS	QC220755	83297	Soil	31-JUL-2003 13:08	1.0	46.51163	1				4:MG=1487000	
071	tr212033	MSD	QC220756	83297	Soil	31-JUL-2003 13:11	1.0	48.78049	2				4:MG=1256000	
072	tr212034	SAMPLE	166603-002	83297	Soil	31-JUL-2003 13:15	1.0	42.91845					6:MG=2059000	
073	tr212035	SAMPLE	166603-003	83297	Soil	31-JUL-2003 13:18	1.0	50.0					6:FE=1948000	
074	tr212036	CCV				31-JUL-2003 13:42	1.0	1.0				5		
075	tr212037	CCB				31-JUL-2003 13:47	1.0	1.0						
076	tr212038	BLANK	QC220782	83302	Water	31-JUL-2003 13:58	1.0	1.0						
077	tr212039	BS	QC220783	83302	Water	31-JUL-2003 14:01	1.0	1.0						
078	tr212040	BSD	QC220784	83302	Water	31-JUL-2003 14:05	1.0	1.0						
079	tr212041	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:08	1.0	1.0	1					
080	tr212042	SAMPLE	166620-007	83302	Water	31-JUL-2003 14:12	1.0	1.0						
081	tr212043	SAMPLE	166585-005	83297	Miscel	31-JUL-2003 14:15	1.0	44.24779						
082	tr212044	SAMPLE	166620-001	83302	Water	31-JUL-2003 14:19	1.0	1.0						
083	tr212045	ICSAB				31-JUL-2003 14:23	1.0	1.0				4	4:MG=517600	
084	tr212046	CCV				31-JUL-2003 14:29	1.0	1.0				6		
085	tr212047	CCB				31-JUL-2003 14:34	1.0	1.0						
086	tr212048	SAMPLE	166398-008	83327	Water	31-JUL-2003 14:38	1.0	1.0						
087	tr212049	BLANK	QC220746	83296	Soil	31-JUL-2003 14:42	1.0	50.0						
088	tr212050	BS	QC220747	83296	Soil	31-JUL-2003 14:49	1.0	50.0						
089	tr212051	BSD	QC220748	83296	Soil	31-JUL-2003 14:53	1.0	50.0						
090	tr212052	MSS	166561-022	83296	Soil	31-JUL-2003 14:57	1.0	42.91845	4				4:FE=236000	
091	tr212053	SER	QC220751	83296	Soil	31-JUL-2003 15:00	5.0	42.91845	1	2				
092	tr212054	MS	QC220749	83296	Soil	31-JUL-2003 15:04	1.0	38.91051					4:CA=224300	
093	tr212055	MSD	QC220750	83296	Soil	31-JUL-2003 15:07	1.0	43.29004					2:FE=18900	
094	tr212056	SAMPLE	166561-024	83296	Soil	31-JUL-2003 15:11	1.0	43.29004					3:FE=232700	
095	tr212057	SAMPLE	166561-025	83296	Soil	31-JUL-2003 15:15	1.0	44.05286					4:FE=280400	
096	tr212058	CCV				31-JUL-2003 15:20	1.0	1.0				5		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Meiwa Date: 7/3/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr212059 CCB			31-JUL-2003 15:24 1.0	1.0					
098	tr212060 SAMPLE	166561-026	83296 Soil	31-JUL-2003 15:31 1.0	47.16981				3:FE=258300	
099	tr212061 SAMPLE	166561-027	83296 Soil	31-JUL-2003 15:34 1.0	44.44444				3:FE=246000	
100	tr212062 SAMPLE	166561-031	83296 Soil	31-JUL-2003 15:38 1.0	46.72897				3:FE=231100	
101	tr212063 SAMPLE	166561-032	83296 Soil	31-JUL-2003 15:41 1.0	46.29630				3:FE=189300	
102	tr212064 SAMPLE	166561-033	83296 Soil	31-JUL-2003 15:45 1.0	50.0				3:FE=194900	
103	tr212065 SAMPLE	166561-034	83296 Soil	31-JUL-2003 15:48 1.0	44.64286				2:FE=228200	
104	tr212066 SAMPLE	166561-036	83296 Soil	31-JUL-2003 15:51 1.0	39.52569				4:FE=290800	
105	tr212067 SAMPLE	166561-037	83296 Soil	31-JUL-2003 15:55 1.0	41.8410				3:FE=238000	
106	tr212068 SAMPLE	166561-038	83296 Soil	31-JUL-2003 15:58 1.0	46.94836				2:FE=250000	
107	tr212069 SAMPLE	166561-039	83296 Soil	31-JUL-2003 16:02 1.0	46.08295				3:FE=236000	
108	tr212070 CCV			31-JUL-2003 16:08 1.0	1.0					5
109	tr212071 CCB			31-JUL-2003 16:18 1.0	1.0					
110	tr212072 SAMPLE	166398-008	83327 Water	31-JUL-2003 16:24 1.0	1.0					
111	tr212073 PDS	QC220908	83296 Soil	31-JUL-2003 16:28 1.0	42.91845				4:FE=247200	8 9
112	tr212074 SAMPLE	166561-038	83296 Soil	31-JUL-2003 16:31 1.0	46.94836	1			2:FE=247400	
113	tr212075 SAMPLE	166561-040	83296 Soil	31-JUL-2003 16:35 1.0	44.44444				3:FE=251100	
114	tr212076 SAMPLE	166561-041	83296 Soil	31-JUL-2003 16:38 1.0	50.0				4:FE=236900	
115	tr212077 SAMPLE	166561-043	83296 Soil	31-JUL-2003 16:42 1.0	49.26108	1			3:FE=210200	
116	tr212078 SAMPLE	166561-044	83296 Soil	31-JUL-2003 16:45 1.0	49.50495				3:FE=506800	
117	tr212079 SAMPLE	166561-045	83296 Soil	31-JUL-2003 16:49 1.0	45.45455				3:FE=229100	
118	tr212080 SAMPLE	166561-046	83296 Soil	31-JUL-2003 16:52 1.0	47.84689	1			3:FE=217500	
119	tr212081 SAMPLE	166561-047	83296 Soil	31-JUL-2003 16:56 1.0	37.17472				3:FE=305300	
120	tr212082 CCV			31-JUL-2003 17:01 1.0	1.0					6
121	tr212083 CCB			31-JUL-2003 17:07 1.0	1.0					
122	tr212084 BLANK	QC220724	83290 Water	31-JUL-2003 17:11 1.0	1.0					
123	tr212085 BS	QC220725	83290 Water	31-JUL-2003 17:17 1.0	1.0					
124	tr212086 BSD	QC220726	83290 Water	31-JUL-2003 17:21 1.0	1.0					
125	tr212087 MSS	166554-002	83290 Water	31-JUL-2003 17:25 1.0	1.0	2			2:MG=1883000	
126	tr212088 SER	QC220729	83290 Water	31-JUL-2003 17:29 5.0	1.0				2:MG=369600	
127	tr212089 MSS	166554-002	83290 Water	31-JUL-2003 17:32 1.0	1.0	3			2:MG=1829000	
128	tr212091 MS	QC220727	83290 Water	31-JUL-2003 17:42 1.0	1.0	1			2:MG=1920000	

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SS177 11=03SS17

Analyst: ADW Date: 7/31/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
129	tr212092	MSD	QC220728	83290	Water	31-JUL-2003 17:45	1.0	1.0	1			2:MG=1914000	
130	tr212093	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:49	1.0	1.0	1			3:MG=3540000	
131	tr212094	SAMPLE	166554-001	83290	Water	31-JUL-2003 17:53	1.0	1.0				3:MG=3536000	
132	tr212095	CCV				31-JUL-2003 18:06	1.0	1.0					6
133	tr212096	CCB				31-JUL-2003 18:37	1.0	1.0					
134	tr212097	SAMPLE	166561-043	83296	Soil	31-JUL-2003 18:40	1.0	49.26108	1			3:FE=245100	
135	tr212098	SAMPLE	166561-046	83296	Soil	31-JUL-2003 18:44	1.0	47.84689				3:FE=262000	
136	tr212099	MSS	166554-002	83290	Water	31-JUL-2003 18:47	20.0	1.0	3			1:MG=109700	
137	tr212100	PDS	QC220938	83290	Water	31-JUL-2003 18:52	1.0	1.0				2:MG=1947000	10 11
138	tr212101	ICSAB				31-JUL-2003 18:56	1.0	1.0				4:MG=583000	
139	tr212103	CCV				31-JUL-2003 19:08	1.0	1.0					6
140	tr212104	CCB				31-JUL-2003 19:15	1.0	1.0					
141	tr212105	SAMPLE	166599-014	83290	Water	31-JUL-2003 19:23	1.0	1.0	1				
142	tr212106	SAMPLE	166560-022	83290	Water	31-JUL-2003 19:27	1.0	1.0	1				
143	tr212107	SAMPLE	166561-023	83290	Water	31-JUL-2003 19:31	1.0	1.0	1				
144	tr212108	SAMPLE	166561-028	83290	Water	31-JUL-2003 19:36	1.0	1.0	3				
145	tr212109	SAMPLE	166604-001	83290	Water	31-JUL-2003 19:40	1.0	1.0				1:CA=147100	
146	tr212110	SAMPLE	166552-001	83290	Water	31-JUL-2003 19:44	1.0	1.0				2:CA=246500	
147	tr212111	CCV				31-JUL-2003 19:51	1.0	1.0	3				5
148	tr212112	X	rinse			31-JUL-2003 19:58	1.0	1.0					
149	tr212113	CCB				31-JUL-2003 20:02	1.0	1.0	2				
150	tr212114	SAMPLE	166552-002	83290	Water	31-JUL-2003 20:06	1.0	1.0				1:CA=450700	
151	tr212115	SAMPLE	166552-003	83290	Water	31-JUL-2003 20:11	1.0	1.0				1:CA=176800	
152	tr212116	SAMPLE	166552-004	83290	Water	31-JUL-2003 20:15	1.0	1.0	1				
153	tr212117	SAMPLE	166552-005	83290	Water	31-JUL-2003 20:19	1.0	1.0	1				
154	tr212118	SAMPLE	166552-006	83290	Water	31-JUL-2003 20:23	1.0	1.0				1:MG=102400	
155	tr212119	SAMPLE	166552-008	83290	Water	31-JUL-2003 20:28	1.0	1.0					
156	tr212120	SAMPLE	166552-009	83290	Water	31-JUL-2003 20:32	1.0	1.0				3:CA=292300	
157	tr212121	SAMPLE	166552-007	83290	Water	31-JUL-2003 20:36	1.0	1.0				4:AL=535100	
158	tr212122	ICSAB				31-JUL-2003 20:43	1.0	1.0					
159	tr212123	CCV				31-JUL-2003 20:52	1.0	1.0	1				6
160	tr212124	X	rinse			31-JUL-2003 20:59	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: M. W. W. Date: 7/3/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Std	Used	>LR
161	tr212125	CCB				31-JUL-2003	21:05 1.0	1.0	1					
162	tr212126	BLANK	QC220573	83247	TCLP L	31-JUL-2003	21:10 10.0	1.0	3					
163	tr212127	BS	QC220574	83247	TCLP L	31-JUL-2003	21:14 1.0	1.0	5					
164	tr212128	BSD	QC220575	83247	TCLP L	31-JUL-2003	21:18 1.0	1.0	5					
165	tr212129	MSS	166563-005	83247	TCLP L	31-JUL-2003	21:23 10.0	1.0	6					
166	tr212130	SER	QC220935	83247	TCLP L	31-JUL-2003	21:26 50.0	1.0						
167	tr212131	SDUP	QC220576	83247	TCLP L	31-JUL-2003	21:32 10.0	1.0						
168	tr212132	SSPIKE	QC220577	83247	TCLP L	31-JUL-2003	21:36 10.0	1.0						
169	tr212133	SAMPLE	166557-001	83247	TCLP L	31-JUL-2003	21:41 10.0	1.0	2					
170	tr212134	CCV				31-JUL-2003	21:47 1.0	1.0	5					
171	tr212135	X	rinse			31-JUL-2003	21:55 1.0	1.0	1					
172	tr212136	CCB				31-JUL-2003	22:00 1.0	1.0	2					
173	tr212137	SAMPLE	166543-002	83173	Water	31-JUL-2003	22:05 1.0	1.0	1					
174	tr212138	SAMPLE	166543-004	83173	Water	31-JUL-2003	22:09 1.0	1.0	2					
175	tr212139	SAMPLE	166543-006	83173	Water	31-JUL-2003	22:13 1.0	1.0	1					
176	tr212140	SAMPLE	166543-008	83173	Water	31-JUL-2003	22:17 1.0	1.0	2					
177	tr212141	SAMPLE	166544-004	83173	Water	31-JUL-2003	22:22 1.0	1.0	1					
178	tr212142	SAMPLE	166544-005	83173	Water	31-JUL-2003	22:26 1.0	1.0						
179	tr212143	SAMPLE	166544-006	83173	Water	31-JUL-2003	22:30 1.0	1.0						
180	tr212144	SAMPLE	166544-007	83173	Water	31-JUL-2003	22:35 1.0	1.0						
181	tr212145	SAMPLE	166544-008	83173	Water	31-JUL-2003	22:39 1.0	1.0	1					
182	tr212146	CCV				31-JUL-2003	22:47 1.0	1.0	1					
183	tr212147	X	rinse			31-JUL-2003	22:54 1.0	1.0						
184	tr212148	CCB				31-JUL-2003	23:02 1.0	1.0	2					
185	tr212149	BLANK	QC220867	83326	Wipe	31-JUL-2003	23:06 1.0	50.0	3					
186	tr212150	BS	QC220868	83326	Wipe	31-JUL-2003	23:11 1.0	50.0	3					
187	tr212151	BSD	QC220869	83326	Wipe	31-JUL-2003	23:15 1.0	50.0						
188	tr212152	SAMPLE	166606-001	83326	Wipe	31-JUL-2003	23:21 1.0	50.0						
189	tr212153	SAMPLE	166606-002	83326	Wipe	31-JUL-2003	23:25 1.0	50.0						
190	tr212154	SAMPLE	166612-001	83337	Miscel	31-JUL-2003	23:29 1.0	46.29630						
191	tr212155	SAMPLE	166612-002	83337	Miscel	31-JUL-2003	23:34 1.0	39.06250						
192	tr212156	SAMPLE	166608-008	83337	Soil	31-JUL-2003	23:38 1.0	45.45455						

StdS used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SSS286 9=03SSS287 10=03SSS177 11=03SSS17

Analyst: Meiwa Date: 7/31/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
193	tr212157	SAMPLE	166608-013	83337	Soil	31-JUL-2003 23:42	1.0	50.76142				2:FE=261200	
194	tr212158	ICSAB				31-JUL-2003 23:48	1.0	1.0				4:AL=542300	
195	tr212159	CCV				31-JUL-2003 23:55	1.0	1.0				5	
196	tr212160	X	rinse			01-AUG-2003 00:03	1.0	1.0					
197	tr212161	CCB				01-AUG-2003 00:07	1.0	1.0			1		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Melvin Date: 7/31/03
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Standardization Rpt.

08/01/03 05:50:50 AM

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Method: 6010B Standard: blank
 Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	-.001	.000	-.001	.001	-.025	.001	.000
Dev	.001	.000	.000	.000	.000	.001	.000
RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	-.000	-.007	.001	-.000	.000	-.000	-.002
Dev	.000	.000	.001	.001	.000	.000	.000
RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.001	.000	-.000	.000	.006	.0325	-.0133
Dev	.001	.000	.000	.000	.000	.0000	.0000
RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	-.0008	.0001	.000	.071			
Dev	.0001	.0001	.000	.000			
RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

ethod: 6010B Standard: cst hi
 un Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

standardization

Report

08/01/03 05:56:54 AM

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thod: 6010B

Slope = Conc(SIR)/IR

ement	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
2068	206.831	Multiple	Standards	6625.80	4.25512	08/01/03 05:53:15
206A	206.832	Multiple	Standards	10861.1	-4.95256	08/01/03 05:53:15
1890	189.042	Multiple	Standards	12606.0	12.0996	08/01/03 05:53:15
4934	493.409	Multiple	Standards	180.343	-.106017	08/01/03 05:53:15
3130	313.042	Multiple	Standards	145.252	3.58223	08/01/03 05:53:15
2265	226.502	Multiple	Standards	424.876	-.420509	08/01/03 05:53:15
2677	267.716	Multiple	Standards	4035.62	-1.45267	08/01/03 05:53:15
2286	228.616	Multiple	Standards	3592.62	.689783	08/01/03 05:53:15
3247	324.754	Multiple	Standards	1698.73	11.3432	08/01/03 05:53:15
2203	220.351	Multiple	Standards	3210.65	-2.02149	08/01/03 05:53:15
220A	220.352	Multiple	Standards	3068.61	.349390	08/01/03 05:53:15
2020	202.030	Multiple	Standards	3588.89	-.796321	08/01/03 05:53:15
2316	231.604	Multiple	Standards	1287.52	.069626	08/01/03 05:53:15
1960	196.021	Multiple	Standards	12134.7	20.6758	08/01/03 05:53:15
196A	196.022	Multiple	Standards	9986.62	-9.52698	08/01/03 05:53:15
3280	328.068	Multiple	Standards	1476.84	-.513876	08/01/03 05:53:15
11908	190.864	Multiple	Standards	18521.3	8.55638	08/01/03 05:53:15
2924	292.402	Multiple	Standards	2605.16	-.984608	08/01/03 05:53:15
2138	213.856	Multiple	Standards	3715.97	-22.0249	08/01/03 05:53:15
13082	308.215	Multiple	Standards	43764.1	-1421.94	08/01/03 05:53:15
3179	317.933	Multiple	Standards	33923.4	451.181	08/01/03 05:53:15
2714	271.441	Multiple	Standards	41884.3	34.6737	08/01/03 05:53:15
2790	279.079	Multiple	Standards	52929.5	-7.62003	08/01/03 05:53:15
2576	257.610	Multiple	Standards	517.941	-.046598	08/01/03 05:53:15
b sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
b sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
e sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
3349	334.941	Multiple	Standards	545.203	-38.5847	08/01/03 05:53:15

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	994.5000	ug/L	-1	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2001.000	ug/L	0	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1017.000	ug/L	2	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2009.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	501.0000	ug/L	0	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	486.1000	ug/L	-3	10
Antimony	500.0000	546.0000	ug/L	9	10
Arsenic	250.0000	261.0000	ug/L	4	10
Barium	500.0000	493.0000	ug/L	-1	10
Beryllium	50.00000	51.20000	ug/L	2	10
Cadmium	50.00000	49.10000	ug/L	-2	10
Calcium	1000.000	984.1000	ug/L	-2	10
Chromium	100.0000	100.0000	ug/L	0	10
Cobalt	250.0000	249.0000	ug/L	0	10
Copper	100.0000	102.0000	ug/L	2	10
Iron	500.0000	493.6000	ug/L	-1	10
Lead	250.0000	248.0000	ug/L	-1	10
Magnesium	1000.000	1012.000	ug/L	1	10
Manganese	50.00000	49.30000	ug/L	-1	10
Molybdenum	500.0000	487.0000	ug/L	-3	10
Nickel	250.0000	252.0000	ug/L	1	10
Selenium	250.0000	248.0000	ug/L	-1	10
Silver	50.00000	49.10000	ug/L	-2	10
Thallium	250.0000	242.0000	ug/L	-3	10
Titanium	500.0000	508.0000	ug/L	2	10
Vanadium	250.0000	247.0000	ug/L	-1	10
Zinc	50.00000	49.60000	ug/L	-1	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltype :

standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	144.9000	ug/L	45	50	
Antimony	60.00000	80.10000	ug/L	34	50	
Arsenic	5.000000	4.100000	ug/L	-18	50	
Barium	10.00000	9.950000	ug/L	-1	50	
Beryllium	2.000000	1.940000	ug/L	-3	50	
Cadmium	5.000000	4.750000	ug/L	-5	50	
Chromium	10.00000	9.490000	ug/L	-5	50	
Cobalt	20.00000	19.20000	ug/L	-4	50	
Copper	10.00000	9.380000	ug/L	-6	50	
Iron	100.0000	103.8000	ug/L	4	50	
Lead	3.000000	3.690000	ug/L	23	50	
Manganese	10.00000	9.860000	ug/L	-1	50	
Molybdenum	20.00000	16.90000	ug/L	-16	50	
Nickel	20.00000	20.30000	ug/L	2	50	
Selenium	5.000000	3.380000	ug/L	-32	50	
Silver	5.000000	4.750000	ug/L	-5	50	
Thallium	5.000000	7.200000	ug/L	44	50	
Vanadium	10.00000	9.290000	ug/L	-7	50	
Zinc	20.00000	21.30000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltype :

tandards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	708.8000	ug/L	-5	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1476.000	ug/L	-2	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	728.0000	ug/L	-3	10	
Lead		375.0000	339.0000	ug/L	-10	10	
Magnesium		1500.000	1488.000	ug/L	-1	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	694.0000	ug/L	-7	10	
Nickel		375.0000	373.0000	ug/L	-1	10	
Selenium		375.0000	350.0000	ug/L	-7	10	
Silver		75.00000	72.60000	ug/L	-3	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	477.9000	ug/L	-4	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	49.80000	ug/L	0	10	
Calcium		1000.000	1018.000	ug/L	2	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	496.1000	ug/L	-1	10	
Lead		250.0000	241.0000	ug/L	-4	10	
Magnesium		1000.000	988.9000	ug/L	-1	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	462.0000	ug/L	-8	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	50.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.5000	ug/L	-2	10	
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1089.000	ug/L	9	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	107.0000	ug/L	7	10	
Iron		500.0000	548.6000	ug/L	10	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1052.000	ug/L	5	10	
Manganese		50.00000	52.20000	ug/L	4	10	
Molybdenum		500.0000	486.0000	ug/L	-3	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.80000	ug/L	4	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	258.0000	ug/L	3	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.2000	ug/L	3	10	
Antimony		750.0000	783.0000	ug/L	4	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.50000	ug/L	-2	10	
Calcium		1500.000	1539.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	752.2000	ug/L	0	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	758.0000	ug/L	1	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	74.80000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73307079003
ilenam: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL		
Antimony	[4.1100]	60.00000	ug/L	<RL		
Arsenic	[0.5980]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.6380]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1590]	10.00000	ug/L	<RL		
Molybdenum	[1.7300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.3900]	5.000000	ug/L	<RL		
Titanium	[0.9030]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079015
Filename: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[10.030]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5330]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4280]	10.00000	ug/L	<RL		
Molybdenum	[3.6500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2100]	5.000000	ug/L	<RL		
Titanium	[0.6130]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.1780]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
 Legnum: 73307079027
 Filename: tr212190

TJA Trace ICP
 Run Name:
 Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1160]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[57.280]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.3300]		10.00000	ug/L	<	RL
Iron	[14.150]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.9880]		500.0000	ug/L	<	RL
Manganese	[0.4800]		10.00000	ug/L	<	RL
Molybdenum	[2.2900]		20.00000	ug/L	<	RL
Nickel	[0.3410]		20.00000	ug/L	<	RL
Selenium	[2.1400]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.5700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4830]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 09:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2190]	100.0000	ug/L	<RL		
Antimony	[2.7100]	60.00000	ug/L	<RL		
Arsenic	[0.8720]	5.000000	ug/L	<RL		
Barium	[0.0330]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0450]	5.000000	ug/L	<RL		
Calcium	[56.840]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1400]	10.00000	ug/L	<RL		
Iron	[13.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[12.470]	500.0000	ug/L	<RL		
Manganese	[0.5800]	10.00000	ug/L	<RL		
Molybdenum	[2.1100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.2500]	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4870]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 10:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[11.300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1670]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[63.450]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.1300]	10.00000	ug/L	<	RL
Copper	[2.5800]	10.00000	ug/L	<	RL
Iron	[19.660]	100.0000	ug/L	<	RL
Lead	[0.9820]	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.5340]	10.00000	ug/L	<	RL
Molybdenum	[5.7800]	20.00000	ug/L	<	RL
Nickel	[0.7750]	20.00000	ug/L	<	RL
Selenium	[2.8000]	5.000000	ug/L	<	RL
Silver	[0.1070]	5.000000	ug/L	<	RL
Thallium	[1.7600]	5.000000	ug/L	<	RL
Titanium	[2.2400]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.8880]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Sample Number: 73307079062
Sample Name: tr212225

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2710]	100.0000	ug/L	<RL		
Antimony	[21.700]	60.00000	ug/L	<RL		
Arsenic	[2.6400]	5.000000	ug/L	<RL		
Barium	[0.0450]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0870]	10.00000	ug/L	<RL		
Copper	[2.1700]	10.00000	ug/L	<RL		
Iron	[14.020]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4760]	10.00000	ug/L	<RL		
Molybdenum	[1.4600]	20.00000	ug/L	<RL		
Nickel	[0.5200]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.0320]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2500]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	508600.0	ug/L	2			
Antimony	500.0000	557.0000	ug/L	11	20		
Arsenic	500.0000	549.0000	ug/L	10	20		
Barium	500.0000	505.0000	ug/L	1	20		
Beryllium	500.0000	500.0000	ug/L	0	20		
Cadmium	1000.000	987.0000	ug/L	-1	20		
Calcium	500000.0	453100.0	ug/L	-9			
Chromium	500.0000	482.0000	ug/L	-4	20		
Cobalt	500.0000	483.0000	ug/L	-3	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	187900.0	ug/L	-6			
Lead	1000.000	848.0000	ug/L	-15	20		
Magnesium	500000.0	520300.0	ug/L	4			
Manganese	500.0000	484.0000	ug/L	-3	20		
Molybdenum	500.0000	458.0000	ug/L	-8	20		
Nickel	1000.000	1040.000	ug/L	4	20		
Selenium	500.0000	499.0000	ug/L	0	20		
Silver	1000.000	1040.000	ug/L	4	20		
Thallium	500.0000	495.0000	ug/L	-1	20		
Titanium	20000.00	2030.000	ug/L	-90			
Vanadium	500.0000	500.0000	ug/L	0	20		
Zinc	1000.000	1030.000	ug/L	3	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltype :

standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	541500.0	ug/L	8			
Antimony	500.0000	546.0000	ug/L	9	20		
Arsenic	500.0000	557.0000	ug/L	11	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	526.0000	ug/L	5	20		
Cadmium	1000.000	973.0000	ug/L	-3	20		
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	190300.0	ug/L	-5			
Lead	1000.000	1030.000	ug/L	3	20		
Magnesium	500000.0	545500.0	ug/L	9			
Manganese	500.0000	503.0000	ug/L	1	20		
Molybdenum	500.0000	476.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	516.0000	ug/L	3	20		
Silver	1000.000	894.0000	ug/L	-11	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2110.000	ug/L	-89			
Vanadium	500.0000	508.0000	ug/L	2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr212164	CS				01-AUG-2003 05:59	1.0	1.0				1	
002	tr212165	ICV				01-AUG-2003 06:04	1.0	1.0				2	
003	tr212166	ICB				01-AUG-2003 06:21	1.0	1.0				3	
004	tr212167	CRI				01-AUG-2003 06:32	1.0	1.0				4	4:MG=520300
005	tr212168	ICSAB				01-AUG-2003 06:43	1.0	50.0					
006	tr212169	BLANK				01-AUG-2003 06:47	1.0	50.0					
007	tr212170	BS				01-AUG-2003 06:51	1.0	50.0					
008	tr212171	BSD				01-AUG-2003 06:56	1.0	44.64286	2				1:FE=196400
009	tr212172	MSS				01-AUG-2003 07:01	1.0	44.64286	1				1:FE=195700
010	tr212173	MSS				01-AUG-2003 07:06	5.0	44.64286		1			
011	tr212174	SER				01-AUG-2003 07:10	5.0	44.64286	1				
012	tr212175	SER				01-AUG-2003 07:14	5.0	44.64286					
013	tr212176	MSS				01-AUG-2003 07:19	1.0	1.0				5	
014	tr212177	CCV				01-AUG-2003 07:28	1.0	1.0					
015	tr212178	CCB				01-AUG-2003 07:32	25.0	44.64286	1				
016	tr212179	SER				01-AUG-2003 07:36	1.0	47.16981					2:FE=209400
017	tr212180	MS				01-AUG-2003 07:40	1.0	40.98361		1			2:FE=231300
018	tr212181	MSD				01-AUG-2003 07:44	1.0	44.64286				6	7
019	tr212182	PDS				01-AUG-2003 07:49	1.0	47.84689	3				1:FE=137400
020	tr212183	SAMPLE				01-AUG-2003 07:53	1.0	44.24779	2				2:FE=188900
021	tr212184	SAMPLE				01-AUG-2003 07:57	1.0	39.21569	2				2:FE=172400
022	tr212185	SAMPLE				01-AUG-2003 08:01	1.0	45.66210	4				2:FE=167200
023	tr212186	SAMPLE				01-AUG-2003 08:05	1.0	47.84689	1				1:FE=139000
024	tr212187	SAMPLE				01-AUG-2003 08:09	1.0	45.66210	2				2:FE=166000
025	tr212188	SAMPLE				01-AUG-2003 08:26	1.0	1.0				8	
026	tr212189	CCV				01-AUG-2003 08:39	1.0	1.0					
027	tr212190	CCB				01-AUG-2003 08:43	10.0	47.84689					
028	tr212191	SAMPLE				01-AUG-2003 08:47	10.0	44.24779					
029	tr212192	SAMPLE				01-AUG-2003 08:51	10.0	39.21569	1				
030	tr212193	SAMPLE				01-AUG-2003 08:55	10.0	45.66210					
031	tr212194	SAMPLE				01-AUG-2003 09:00	1.0	46.72897					
032	tr212195	SAMPLE				01-AUG-2003 09:00	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: 1/10/00 Date: 7/1/03
Page 1 of 2

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003 09:04	1.0	43.85965						
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003 09:08	1.0	44.05286						
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003 09:12	1.0	48.30918					3:FE=262700	
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003 09:16	1.0	48.30918						
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003 09:20	1.0	45.66210						
038	tr212201	CCV				01-AUG-2003 09:33	1.0	1.0				5		
039	tr212202	CCB				01-AUG-2003 09:39	1.0	1.0						
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003 09:49	1.0	50.0						
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003 09:53	1.0	45.04505					2:FE=250500	
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003 09:57	1.0	49.50495					3:FE=234100	
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003 10:01	1.0	43.29004					2:FE=283000	
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003 10:05	1.0	46.08295					2:FE=243700	
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003 10:09	1.0	46.29630					2:FE=248000	
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003 10:13	1.0	47.84689					4:FE=439200	
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003 10:17	1.0	40.0					4:CA=430200	
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003 10:20	1.0	49.26108					2:FE=409400	
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003 10:25	20.0	1.0				5		
050	tr212213	CCV				01-AUG-2003 10:35	1.0	1.0						
051	tr212214	CCB				01-AUG-2003 10:39	1.0	1.0						
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003 10:43	50.0	1.0						
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003 10:46	100.0	1.0						
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003 10:50	1.0	1.0					1	
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003 10:54	1.0	1.0						
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003 10:57	1.0	1.0						
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003 11:00	1.0	1.0						
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003 11:04	1.0	1.0					1	
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003 11:07	1.0	1.0						
060	tr212223	ICSAB				01-AUG-2003 11:18	1.0	1.0				4	4:MG=545500	
061	tr212224	CCV				01-AUG-2003 11:27	1.0	1.0				8		
062	tr212225	CCB				01-AUG-2003 11:39	1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Date:
Page 2 of 2

REPORTING SUMMARY FOR 166599 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S	B	C	P	Z	
				B	A	U	B	N	
166599-014	MET07	07/31/03 19:23	1.0		+	+	+	+	
166599-014	MET07	08/01/03 10:50	1.0	+					
QC220724	MET07	07/31/03 17:11	1.0	+	+	+	+	+	
QC220725	MET07	07/31/03 17:17	1.0		+	+	+	+	
QC220725	MET07	08/01/03 12:38	1.0	+					
QC220726	MET07	07/31/03 17:21	1.0		+	+	+	+	
QC220726	MET07	08/01/03 12:43	1.0	+					
QC220727	MET07	07/31/03 17:42	1.0	+	+	+	+	+	
QC220728	MET07	07/31/03 17:45	1.0	+	+	+	+	+	
QC220729	MET07	07/31/03 17:29	5.0	+	+	+	+	+	
QC220729	MET07	08/01/03 10:43	50.0						
QC220729	MET07	08/01/03 10:46	100.0						
QC220938	MET07	07/31/03 18:52	1.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary

31-JUL-2003 18:42

Batch Number : 83290
 Date Extracted: 30-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init	Units	Final	Prep	Clean	pH	SP	1	SP	2	SP	3	Analyses	Comments
166552-001		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-002		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-003		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-004		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-005		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-006		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-007		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-008		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166552-009		Wil Chee Planning	Water	50	ml	50	1	1								CD, PB	
166554-001		Tetra Tech EMI	Water	50	ml	50	1	1								T26/ICP	
166554-002		Tetra Tech EMI	Water	50	ml	50	1	1								T26/ICP	
166560-022		Treadwell & Rollo	Water	50	ml	50	1	1								BA, CU, PB, SB, ZN	mss
166561-023		Treadwell & Rollo	Water	50	ml	50	1	1								BA, CU, PB, SB, ZN	
166561-028		Treadwell & Rollo	Water	50	ml	50	1	1								TAL/ICP	
166599-014		Treadwell & Rollo	Water	50	ml	50	1	1								BA, CU, PB, SB, ZN	
166604-001		LA Chemical	Water	50	ml	50	1	1								ZN	
QC220724	BLANK		Water	50	ml	50	1	1								ICAP	
QC220725	BS		Water	50	ml	50	1	1								ICAP	
QC220726	BSD		Water	50	ml	50	1	1								ICAP	
QC220727	MS		Water	50	ml	50	1	1								ICAP	
QC220728	MSD	of 166554-002	Water	50	ml	50	1	1								ICAP	
QC220729	SER	of 166554-002	Water	50	ml	50	1	1								ICAP	
QC220938	PDS	of 166554-002	Water	50	ml	50	1	1								ICAP	

Prep Chemist:

MW for PV

Reviewed By:

MW Date: 7/31/03

Relinquished By:

MW

Received By:

MW Date: 7/31/03

PROJECT H2O Digestion

Notebook No. BK 1760

19

Continued From Page 18

07/30/03

Batch# 93290

ICAPP/M 3010

SAMPLE ID	INIT VOL (ML)	Final vol	FILTERED YES/NO	COMMENTS
D 1166552-001	50.0	50.0	NO	SPICES
↓ 002				♥ 03SS177 (0.5 mL)
↓ 003				♥ 03SS178 ↓
A 004				
↓ 005				Reagents
↓ 006				HNO3 OT Baker # 405050
D 007				1:1 HCl OT Baker # Y12022/012303
↓ 008				
A ↓ 009				
G 1166554-001				
↓ ↓ 002 (HSS)				
A 1166560-002				
↓ 1166561-003				
↓ 1166561-008				
↓ 1166599-014				
↓ 1166604-001				
MB-OC 220724				
♥ BS ↓ 220725				
♥ BS ↓ 220726				
♥ MS-6554-002				
♥ MS-6554-002				

Continued on Page 20

Revised and Understood By

Patricia Vergara

07/30/03

90

Am

7/1/03

Sign

Date

Method Detection Limit Study for EPA 6010B/rev. 1
Curtis & Tompkins Laboratories

11/16/2003

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

WV 6/26/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L	Eu

Method Detection Limit Study for EPA 6010B / 20.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segment	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Bu

ICP Raw Data

SEQUENCE SUMMARY

Curtis & Tompkins-Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr211962	CS				31-JUL-2003	06:59	1.0				1		
002	tr211963	ICV				31-JUL-2003	07:16	1.0				2		
003	tr211964	ICB				31-JUL-2003	07:21	1.0						
004	tr211965	CRI				31-JUL-2003	07:35	1.0				3		
005	tr211966	ICSAB				31-JUL-2003	07:45	1.0				4		4:MG=523000
006	tr211967	BLANK	QC220785	83303	Soil	31-JUL-2003	07:50	1.0	2					
007	tr211968	BS	QC220786	83303	Soil	31-JUL-2003	07:57	1.0						
008	tr211969	BSD	QC220787	83303	Soil	31-JUL-2003	08:01	1.0						
009	tr211970	MSS	166620-002	83303	Soil	31-JUL-2003	08:06	1.0						4:FE=273900
010	tr211971	SER	QC220790	83303	Soil	31-JUL-2003	08:12	5.0						
011	tr211972	MS	QC220788	83303	Soil	31-JUL-2003	08:15	1.0		1				5:FE=318300
012	tr211973	MSD	QC220789	83303	Soil	31-JUL-2003	08:19	1.0		1				5:FE=270800
013	tr211974	SAMPLE	166611-001	83303	Soil	31-JUL-2003	08:25	1.0						1:AL=112300
014	tr211976	CCV				31-JUL-2003	08:35	1.0				5		
015	tr211977	CCB				31-JUL-2003	08:43	1.0						
016	tr211978	SAMPLE	166611-002	83303	Soil	31-JUL-2003	08:47	1.0						1:AL=118400
017	tr211979	SAMPLE	166611-003	83303	Soil	31-JUL-2003	08:51	1.0						2:AL=132200
018	tr211980	SAMPLE	166611-004	83303	Soil	31-JUL-2003	08:55	1.0						3:FE=191000
019	tr211981	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:01	1.0						5:CA=256000
020	tr211982	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:05	1.0						
021	tr211983	SAMPLE	166616-003	83303	Miscel	31-JUL-2003	09:09	1.0						
022	tr211984	SAMPLE	166620-003	83303	Soil	31-JUL-2003	09:16	1.0						4:FE=344300
023	tr211985	SAMPLE	166620-004	83303	Soil	31-JUL-2003	09:20	1.0						5:FE=435400
024	tr211986	SAMPLE	166620-005	83303	Soil	31-JUL-2003	09:24	1.0						4:FE=338100
025	tr211987	SAMPLE	166620-006	83303	Soil	31-JUL-2003	09:28	1.0						5:FE=405100
026	tr211988	CCV				31-JUL-2003	09:35	1.0				6		
027	tr211989	CCB				31-JUL-2003	09:47	1.0						
028	tr211990	SER	QC220622	83259	Soil	31-JUL-2003	09:51	5.0						
029	tr211991	SAMPLE	166616-001	83303	Miscel	31-JUL-2003	09:55	1.0	1					5:CA=249900
030	tr211992	SAMPLE	166616-002	83303	Miscel	31-JUL-2003	09:59	1.0						
031	tr211993	SAMPLE	166620-008	83303	Soil	31-JUL-2003	10:03	1.0						4:FE=409200
032	tr211994	SAMPLE	166620-009	83303	Soil	31-JUL-2003	10:07	1.0						4:FE=463500

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: mev Date: 7/3/03
Page 1 of 7

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr211995	SAMPLE	166620-010	83303	Soil	31-JUL-2003	10:11	1.0	46.29630					3:FE=577200
034	tr211996	SAMPLE	166620-011	83303	Soil	31-JUL-2003	10:15	1.0	43.10345					4:FE=638600
035	tr211997	SAMPLE	166620-012	83303	Soil	31-JUL-2003	10:19	1.0	40.16064					3:FE=710000
036	tr211998	SAMPLE	166620-013	83303	Soil	31-JUL-2003	10:22	1.0	48.54369	1				3:FE=476600
037	tr211999	SAMPLE	166620-014	83303	Soil	31-JUL-2003	10:26	1.0	39.06250					3:FE=635500
038	tr212000	CCV				31-JUL-2003	10:38	1.0	1.0			7		
039	tr212001	CCB				31-JUL-2003	10:55	1.0	1.0					
040	tr212002	SAMPLE	166620-010	83303	Soil	31-JUL-2003	11:02	1.0	46.29630					3:FE=585500
041	tr212003	SAMPLE	166620-013	83303	Soil	31-JUL-2003	11:06	1.0	48.54369					3:FE=481700
042	tr212004	MS	QC220620	83259	Soil	31-JUL-2003	11:10	1.0	38.75969					2:FE=218200
043	tr212005	MSD	QC220621	83259	Soil	31-JUL-2003	11:14	1.0	48.07692					2:FE=207400
044	tr212006	SAMPLE	166561-005	83259	Soil	31-JUL-2003	11:17	1.0	46.08295					3:FE=201100
045	tr212007	SAMPLE	166561-016	83259	Soil	31-JUL-2003	11:21	1.0	48.07692					1:FE=169800
046	tr212008	BLANK	QC220254	83173	Water	31-JUL-2003	11:26	1.0	1.0					
047	tr212009	BS	QC220255	83173	Water	31-JUL-2003	11:30	1.0	1.0					
048	tr212010	BSD	QC220256	83173	Water	31-JUL-2003	11:34	1.0	1.0					
049	tr212011	BLANK	QC220254	83173	Water	31-JUL-2003	11:41	1.0	1.0					
050	tr212012	CCV				31-JUL-2003	11:45	1.0	1.0			5		
051	tr212013	CCB				31-JUL-2003	11:52	1.0	1.0					
052	tr212014	MSS	166504-001	83173	Water	31-JUL-2003	12:00	1.0	1.0					
053	tr212015	SER	QC220259	83173	Water	31-JUL-2003	12:04	5.0	1.0					
054	tr212016	MSS	166504-001	83173	Water	31-JUL-2003	12:08	1.0	1.0					
055	tr212017	MS	QC220257	83173	Water	31-JUL-2003	12:11	1.0	1.0					
056	tr212018	MSD	QC220258	83173	Water	31-JUL-2003	12:15	1.0	1.0					
057	tr212019	SAMPLE	166512-001	83173	Water	31-JUL-2003	12:18	1.0	1.0					2:CA=700700
058	tr212020	SAMPLE	166512-001	83173	Water	31-JUL-2003	12:22	1.0	1.0					2:CA=689600
059	tr212021	SAMPLE	166539-001	83173	Water	31-JUL-2003	12:25	1.0	1.0					2:MG=616900
060	tr212022	SAMPLE	166539-001	83173	Water	31-JUL-2003	12:29	1.0	1.0					2:MG=611300
061	tr212023	SAMPLE	166504-002	83173	Water	31-JUL-2003	12:32	1.0	1.0					
062	tr212024	CCV				31-JUL-2003	12:37	1.0	1.0			6		
063	tr212025	CCB				31-JUL-2003	12:43	1.0	1.0					
064	tr212026	SAMPLE	166504-003	83173	Water	31-JUL-2003	12:47	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: mev Date: 7/31/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 31-JUL-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73305699

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
065	tr212027 SAMPLE	166504-004	83173 Water	31-JUL-2003 12:50	1.0	3		2:MG=1416000
066	tr212028 BLANK	QC220752	83297 Soil	31-JUL-2003 12:54	50.0	1		
067	tr212029 BS	QC220753	83297 Soil	31-JUL-2003 12:57	50.0			
068	tr212030 BSD	QC220754	83297 Soil	31-JUL-2003 13:01	50.0			
069	tr212031 MSS	166603-001	83297 Soil	31-JUL-2003 13:04	43.29004	4		4:MG=1632000
070	tr212032 MS	QC220755	83297 Soil	31-JUL-2003 13:08	46.51163	1		4:MG=1487000
071	tr212033 MSD	QC220756	83297 Soil	31-JUL-2003 13:11	48.78049	2		4:MG=1256000
072	tr212034 SAMPLE	166603-002	83297 Soil	31-JUL-2003 13:15	42.91845			6:MG=2059000
073	tr212035 SAMPLE	166603-003	83297 Soil	31-JUL-2003 13:18	50.0			6:FE=1948000
074	tr212036 CCV			31-JUL-2003 13:42	1.0		5	
075	tr212037 CCB			31-JUL-2003 13:47	1.0			
076	tr212038 BLANK	QC220782	83302 Water	31-JUL-2003 13:58	1.0			
077	tr212039 BS	QC220783	83302 Water	31-JUL-2003 14:01	1.0			
078	tr212040 BSD	QC220784	83302 Water	31-JUL-2003 14:05	1.0			
079	tr212041 SAMPLE	166620-001	83302 Water	31-JUL-2003 14:08	1.0	1		
080	tr212042 SAMPLE	166620-007	83302 Water	31-JUL-2003 14:12	1.0			
081	tr212043 SAMPLE	166585-005	83297 Miscel	31-JUL-2003 14:15	44.24779			
082	tr212044 SAMPLE	166620-001	83302 Water	31-JUL-2003 14:19	1.0			
083	tr212045 ICSAB			31-JUL-2003 14:23	1.0		4	4:MG=517600
084	tr212046 CCV			31-JUL-2003 14:29	1.0		6	
085	tr212047 CCB			31-JUL-2003 14:34	1.0			
086	tr212048 SAMPLE	166398-008	83327 Water	31-JUL-2003 14:38	1.0			
087	tr212049 BLANK	QC220746	83296 Soil	31-JUL-2003 14:42	50.0			
088	tr212050 BS	QC220747	83296 Soil	31-JUL-2003 14:49	50.0			
089	tr212051 BSD	QC220748	83296 Soil	31-JUL-2003 14:53	50.0			
090	tr212052 MSS	166561-022	83296 Soil	31-JUL-2003 14:57	42.91845	4		4:FE=236000
091	tr212053 SER	QC220751	83296 Soil	31-JUL-2003 15:00	42.91845	1		
092	tr212054 MS	QC220749	83296 Soil	31-JUL-2003 15:04	38.91051			4:CA=224300
093	tr212055 MSD	QC220750	83296 Soil	31-JUL-2003 15:07	43.29004			2:FE=188900
094	tr212056 SAMPLE	166561-024	83296 Soil	31-JUL-2003 15:11	43.29004			3:FE=232700
095	tr212057 SAMPLE	166561-025	83296 Soil	31-JUL-2003 15:15	44.05286			4:FE=280400
096	tr212058 CCV			31-JUL-2003 15:20	1.0		5	

stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: mev Date: 7/31/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
097	tr212059	CCB				31-JUL-2003	15:24	1.0						
098	tr212060	SAMPLE	166561-026	83296	Soil	31-JUL-2003	15:31	1.0						3:FE=258300
099	tr212061	SAMPLE	166561-027	83296	Soil	31-JUL-2003	15:34	1.0						3:FE=246000
100	tr212062	SAMPLE	166561-031	83296	Soil	31-JUL-2003	15:38	1.0						3:FE=231100
101	tr212063	SAMPLE	166561-032	83296	Soil	31-JUL-2003	15:41	1.0						3:FE=189300
102	tr212064	SAMPLE	166561-033	83296	Soil	31-JUL-2003	15:45	1.0						3:FE=194900
103	tr212065	SAMPLE	166561-034	83296	Soil	31-JUL-2003	15:48	1.0						2:FE=228200
104	tr212066	SAMPLE	166561-036	83296	Soil	31-JUL-2003	15:51	1.0						4:FE=290800
105	tr212067	SAMPLE	166561-037	83296	Soil	31-JUL-2003	15:55	1.0						3:FE=238000
106	tr212068	SAMPLE	166561-038	83296	Soil	31-JUL-2003	15:58	1.0						2:FE=250000
107	tr212069	SAMPLE	166561-039	83296	Soil	31-JUL-2003	16:02	1.0						3:FE=236000
108	tr212070	CCV				31-JUL-2003	16:08	1.0				5		
109	tr212071	CCB				31-JUL-2003	16:18	1.0						
110	tr212072	SAMPLE	166398-008	83327	Water	31-JUL-2003	16:24	1.0						
111	tr212073	PDS	QC220908	83296	Soil	31-JUL-2003	16:28	1.0				8	9	4:FE=247200
112	tr212074	SAMPLE	166561-038	83296	Soil	31-JUL-2003	16:31	1.0						2:FE=247400
113	tr212075	SAMPLE	166561-040	83296	Soil	31-JUL-2003	16:35	1.0						3:FE=251100
114	tr212076	SAMPLE	166561-041	83296	Soil	31-JUL-2003	16:38	1.0						4:FE=236900
115	tr212077	SAMPLE	166561-043	83296	Soil	31-JUL-2003	16:42	1.0						3:FE=210200
116	tr212078	SAMPLE	166561-044	83296	Soil	31-JUL-2003	16:45	1.0						3:FE=506800
117	tr212079	SAMPLE	166561-045	83296	Soil	31-JUL-2003	16:49	1.0						3:FE=229100
118	tr212080	SAMPLE	166561-046	83296	Soil	31-JUL-2003	16:52	1.0						3:FE=217500
119	tr212081	SAMPLE	166561-047	83296	Soil	31-JUL-2003	16:56	1.0						3:FE=305300
120	tr212082	CCV				31-JUL-2003	17:01	1.0				6		
121	tr212083	CCB				31-JUL-2003	17:07	1.0						
122	tr212084	BLANK	QC220724	83290	Water	31-JUL-2003	17:11	1.0						
123	tr212085	BS	QC220725	83290	Water	31-JUL-2003	17:17	1.0						
124	tr212086	BSD	QC220726	83290	Water	31-JUL-2003	17:21	1.0						
125	tr212087	MSS	166554-002	83290	Water	31-JUL-2003	17:25	1.0						2:MG=1883000
126	tr212088	SER	QC220729	83290	Water	31-JUL-2003	17:29	5.0						2:MG=369600
127	tr212089	MSS	166554-002	83290	Water	31-JUL-2003	17:32	1.0						2:MG=1829000
128	tr212091	MS	QC220727	83290	Water	31-JUL-2003	17:42	1.0						2:MG=1920000

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: *NOVA* Date: *7/31/03*

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
129	tr212092 MSD	QC220728	83290 Water	31-JUL-2003 17:45 1.0	1.0	1		2:MG=1914000
130	tr212093 SAMPLE	166554-001	83290 Water	31-JUL-2003 17:49 1.0	1.0	1		3:MG=3540000
131	tr212094 SAMPLE	166554-001	83290 Water	31-JUL-2003 17:53 1.0	1.0			3:MG=3536000
132	tr212095 CCV			31-JUL-2003 18:06 1.0	1.0		6	
133	tr212096 CCB			31-JUL-2003 18:37 1.0	1.0			
134	tr212097 SAMPLE	166561-043	83296 Soil	31-JUL-2003 18:40 1.0	49.26108 1			3:FE=245100
135	tr212098 SAMPLE	166561-046	83296 Soil	31-JUL-2003 18:44 1.0	47.84689			3:FE=262000
136	tr212099 MSS	166554-002	83290 Water	31-JUL-2003 18:47 20.0	1.0	3		1:MG=109700
137	tr212100 PDS	QC220938	83290 Water	31-JUL-2003 18:52 1.0	1.0		10 11	2:MG=1947000
138	tr212101 ICSAB			31-JUL-2003 18:56 1.0	1.0		4	4:MG=583000
139	tr212103 CCV			31-JUL-2003 19:08 1.0	1.0		6	
140	tr212104 CCB			31-JUL-2003 19:15 1.0	1.0			
141	tr212105 SAMPLE	166599-014	83290 Water	31-JUL-2003 19:23 1.0	1.0	1		
142	tr212106 SAMPLE	166560-022	83290 Water	31-JUL-2003 19:27 1.0	1.0	1		
143	tr212107 SAMPLE	166561-023	83290 Water	31-JUL-2003 19:31 1.0	1.0	1		
144	tr212108 SAMPLE	166561-028	83290 Water	31-JUL-2003 19:36 1.0	1.0	3		
145	tr212109 SAMPLE	166604-001	83290 Water	31-JUL-2003 19:40 1.0	1.0			1:CA=147100
146	tr212110 SAMPLE	166552-001	83290 Water	31-JUL-2003 19:44 1.0	1.0			2:CA=246500
147	tr212111 CCV			31-JUL-2003 19:51 1.0	1.0	3	5	
148	tr212112 X	rinse		31-JUL-2003 19:58 1.0	1.0			
149	tr212113 CCB			31-JUL-2003 20:02 1.0	1.0	2		
150	tr212114 SAMPLE	166552-002	83290 Water	31-JUL-2003 20:06 1.0	1.0			1:CA=450700
151	tr212115 SAMPLE	166552-003	83290 Water	31-JUL-2003 20:11 1.0	1.0			1:CA=176800
152	tr212116 SAMPLE	166552-004	83290 Water	31-JUL-2003 20:15 1.0	1.0	1		
153	tr212117 SAMPLE	166552-005	83290 Water	31-JUL-2003 20:19 1.0	1.0	1		
154	tr212118 SAMPLE	166552-006	83290 Water	31-JUL-2003 20:23 1.0	1.0			1:MG=102400
155	tr212119 SAMPLE	166552-008	83290 Water	31-JUL-2003 20:28 1.0	1.0			
156	tr212120 SAMPLE	166552-009	83290 Water	31-JUL-2003 20:32 1.0	1.0			
157	tr212121 SAMPLE	166552-007	83290 Water	31-JUL-2003 20:36 1.0	1.0			3:CA=292300
158	tr212122 ICSAB			31-JUL-2003 20:43 1.0	1.0		4	4:AL=535100
159	tr212123 CCV			31-JUL-2003 20:52 1.0	1.0	1	6	
160	tr212124 X	rinse		31-JUL-2003 20:59 1.0	1.0			

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Mei Date: 7/31/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP

Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
161	tr212125	CCB				31-JUL-2003	21:05	1.0	1.0					
162	tr212126	BLANK	QC220573	83247	TCLP L	31-JUL-2003	21:10	10.0	1.0					
163	tr212127	BS	QC220574	83247	TCLP L	31-JUL-2003	21:14	1.0	1.0					
164	tr212128	BSD	QC220575	83247	TCLP L	31-JUL-2003	21:18	1.0	1.0					
165	tr212129	MSS	166563-005	83247	TCLP L	31-JUL-2003	21:23	10.0	1.0					
166	tr212130	SER	QC220935	83247	TCLP L	31-JUL-2003	21:26	50.0	1.0					
167	tr212131	SDUP	QC220576	83247	TCLP L	31-JUL-2003	21:32	10.0	1.0					
168	tr212132	SSPIKE	QC220577	83247	TCLP L	31-JUL-2003	21:36	10.0	1.0					
169	tr212133	SAMPLE	166557-001	83247	TCLP L	31-JUL-2003	21:41	10.0	1.0					
170	tr212134	CCV				31-JUL-2003	21:47	1.0	1.0					
171	tr212135	X	rinse			31-JUL-2003	21:55	1.0	1.0					
172	tr212136	CCB				31-JUL-2003	22:00	1.0	1.0					
173	tr212137	SAMPLE	166543-002	83173	Water	31-JUL-2003	22:05	1.0	1.0					
174	tr212138	SAMPLE	166543-004	83173	Water	31-JUL-2003	22:09	1.0	1.0					
175	tr212139	SAMPLE	166543-006	83173	Water	31-JUL-2003	22:13	1.0	1.0					
176	tr212140	SAMPLE	166543-008	83173	Water	31-JUL-2003	22:17	1.0	1.0					
177	tr212141	SAMPLE	166544-004	83173	Water	31-JUL-2003	22:22	1.0	1.0					
178	tr212142	SAMPLE	166544-005	83173	Water	31-JUL-2003	22:26	1.0	1.0					
179	tr212143	SAMPLE	166544-006	83173	Water	31-JUL-2003	22:30	1.0	1.0					
180	tr212144	SAMPLE	166544-007	83173	Water	31-JUL-2003	22:35	1.0	1.0					
181	tr212145	SAMPLE	166544-008	83173	Water	31-JUL-2003	22:39	1.0	1.0					
182	tr212146	CCV				31-JUL-2003	22:47	1.0	1.0					
183	tr212147	X	rinse			31-JUL-2003	22:54	1.0	1.0					
184	tr212148	CCB				31-JUL-2003	23:02	1.0	1.0					
185	tr212149	BLANK	QC220867	83326	Wipe	31-JUL-2003	23:06	1.0	50.0					
186	tr212150	BS	QC220868	83326	Wipe	31-JUL-2003	23:11	1.0	50.0					
187	tr212151	BSD	QC220869	83326	Wipe	31-JUL-2003	23:15	1.0	50.0					
188	tr212152	SAMPLE	166606-001	83326	Wipe	31-JUL-2003	23:21	1.0	50.0					
189	tr212153	SAMPLE	166606-002	83326	Wipe	31-JUL-2003	23:25	1.0	50.0					
190	tr212154	SAMPLE	166612-001	83337	Miscel	31-JUL-2003	23:29	1.0	46.29630					
191	tr212155	SAMPLE	166612-002	83337	Miscel	31-JUL-2003	23:34	1.0	39.06250					
192	tr212156	SAMPLE	166608-008	83337	Soil	31-JUL-2003	23:38	1.0	45.45455					

Std used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: *Merwin* Date: *7/31/03*

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73305699 Instrument: MET07 TJA Trace ICP Begun: 31-JUL-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
193	tr212157	SAMPLE	166608-013	83337	Soil	31-JUL-2003	23:42	1.0	50.76142					2:FE=261200
194	tr212158	ICSAB				31-JUL-2003	23:48	1.0	1.0			4		4:AL=542300
195	tr212159	CCV				31-JUL-2003	23:55	1.0	1.0	2		5		
196	tr212160	X	rinse			01-AUG-2003	00:03	1.0	1.0					
197	tr212161	CCB				01-AUG-2003	00:07	1.0	1.0	1				

Std's used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03WS1151 7=03WS1152 8=03SS286 9=03SS287 10=03SS177 11=03SS17

Analyst: Memo Date: 7/31/03

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instd	: MET07	Samplenum:	166599-014	Cident	: LCPSB03[0.3]RB[1]
Seqnum	: 73305699141	Matrix	: Water	Acctnum	: TREADWELL (SES)
Filename	: tr212105	Batchnum	: 83290	Injected	: 31-JUL-2003 19:23
IDF	: 1.0	PDF	: 1.0	Units	: ug/L

Analyte	Result	RL	B=tr212084	Flags
Antimony	ND	60		1b*
Barium	ND	10		u
Copper	ND	10		u
Lead	ND	3.0		u
Zinc	ND	20	2.8	u

1=CCV drift out b=noncompliant u=use

Page 1 of 1

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07 Samplenum: QC220724 Cident :
Seqnum : 73305699122 Matrix : Water Acctnum :
Filename : tr212084 Batchnum : 83290 Injected : 31-JUL-2003 17:11
IDF : 1.0 PDF : 1.0 Units : ug/L

Analyte	Result	RL	Flags
Aluminum	ND	100	u
Antimony	ND	60	u
Arsenic	ND	5.0	u
Barium	ND	10	u
Beryllium	ND	2.0	u
Cadmium	ND	5.0	u
Calcium	ND	500	u
Chromium	ND	10	u
Cobalt	ND	20	u
Copper	ND	10	u
Iron	ND	100	u
Lead	ND	3.0	u
Magnesium	ND	500	u
Manganese	ND	10	u
Molybdenum	ND	20	u
Nickel	ND	20	u
Selenium	ND	5.0	u
Silver	ND	5.0	u
Thallium	ND	5.0	u
Vanadium	ND	10	u
Zinc	ND	20	u
Titanium	ND	10	u

u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699123
Filename : tr212085
IDF : 1.0
PDF : 1.0
Run type : BS
Samplenum: QC220725
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:17
Units : ug/L

Instid : MET07
Seqnum : 73305699124
Filename : tr212086
IDF : 1.0
PDF : 1.0
Run type : BSD
Samplenum: QC220726
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:21

Analyte	Spike Conc	BS %Rec	BSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	2000	2031 102	2023 101	64-130	0	20	u
Antimony	500.0	607.0 121	615.0 123	61-141	1	32	u
Arsenic	100.0	106.0 106	104.0 104	75-123	2	24	u
Barium	2000	2050 103	2060 103	79-120	0	20	u
Beryllium	50.00	53.20 106	53.50 107	80-120	1	20	u
Cadmium	50.00	50.90 102	50.80 102	79-120	0	20	u
Calcium	20000	19400 97	19380 97	73-120	0	20	u
Chromium	200.0	201.0 101	201.0 101	80-120	0	20	u
Cobalt	500.0	500.0 100	502.0 100	75-120	0	20	u
Copper	250.0	255.0 102	255.0 102	78-120	0	20	u
Iron	1000	958.6 96	956.1 96	76-120	0	20	u
Lead	100.0	101.0 101	102.0 102	68-123	1	27	u
Magnesium	20000	20250 101	20290 101	77-120	0	20	u
Manganese	50.00	48.90 98	48.70 97	76-120	0	20	u
Molybdenum	400.0	419.0 105	416.0 104	80-120	1	20	u
Nickel	500.0	506.0 101	509.0 102	76-120	1	20	u
Selenium	100.0	99.60 100	97.80 98	65-124	2	23	u
Silver	50.00	50.40 101	50.50 101	74-120	0	20	u
Thallium	100.0	98.80 99	98.00 98	62-127	1	26	u
Vanadium	500.0	509.0 102	509.0 102	80-120	0	20	u
Zinc	500.0	499.0 100	501.0 100	73-120	0	20	u
Titanium	1000	1020 102	1020 102	80-120	0	20	u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166554-002	Cident : 04501GW001
Segnum : 73305699125	Matrix : Water	Acctnum : TTEMI (AMP)
Filename : tr212087	Batchnum : 83290	Injected : 31-JUL-2003 17:25
IDF : 1.0	PDF : 1.0	Units : ug/L

Analyte	Result	RL	B=tr212084	Flags
Antimony	ND	60		u
Arsenic.....	29	5.0		u
Barium.....	350	10		u
Beryllium	ND	2.0	0.99	u
Cadmium	ND	5.0		u
Chromium.....	11	10		u
Cobalt	ND	20		u
Copper	ND	10		u
Lead	ND	3.0		u
Molybdenum	ND	20		u
Nickel.....	15 J	20		u
Selenium	ND	5.0		u
Silver	ND	5.0		u
Thallium.....	8.1	5.0		a
Vanadium.....	36	10		u
Zinc.....	340	20	2.8	u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166554-002	Cident : 04501GW001
Seqnum : 73305699127	Matrix : Water	Acctnum : TTEMI (AMP)
Filename : tr212089	Batchnum : 83290	Injected : 31-JUL-2003 17:32
IDF : 1.0	PDF : 1.0	Units : ug/L

Analyte	Result	RL	B=tr212084	Flags
Antimony	ND	60		
Arsenic.....	24	5.0		ab*
Barium.....	350	10		
Beryllium	ND	2.0	0.99	
Cadmium	ND	5.0		
Chromium.....	11	10		
Cobalt	ND	20		
Copper	ND	10		
Lead	ND	3.0		
Molybdenum	ND	20		
Nickel.....	13 J	20		
Selenium	ND	5.0		
Silver	ND	5.0		
Thallium.....	16	5.0		au
Vanadium.....	35	10		
Zinc.....	330	20	2.8	

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73305699128
Filename : tr212091
IDF : 1.0
PDF : 1.0
Run type : MS
Samplelenum: QC220727
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:42
Units : ug/L

Instid : MET07
Seqnum : 73305699129
Filename : tr212092
IDF : 1.0
PDF : 1.0
Run type : MSD
Samplelenum: QC220728
Matrix : Water
Batchnum : 83290
Inj : 31-JUL-2003 17:45

MSS : 166554-002

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	73305699125	457.0	2000	2708 113	2748 115	28-139	1	30	u
Antimony	73305699125	ND	500.0	690.0 138*	704.0 141*	38-136	2	36	fu
Arsenic	73305699125	28.80	100.0	145.0 116	146.0 117	60-138	1	46	u
Barium	73305699125	350.0	2000	2360 101	2370 101	44-138	0	21	u
Beryllium	73305699125	0.1880	50.00	50.10 100	49.90 99	62-126	0	20	u
Cadmium	73305699125	1.600	50.00	49.30 95	48.30 93	54-129	2	24	u
Calcium	73305699136	842000	20000	639600 >LR -1012	644500 >LR -988 36-135	--	29	>u	
Chromium	73305699125	11.00	200.0	200.0 95	197.0 93	55-129	2	20	u
Cobalt	73305699125	1.390	500.0	478.0 95	475.0 95	54-127	1	22	u
Copper	73305699125	3.780	250.0	297.0 117	301.0 119	57-128	1	23	u
Iron	73305699125	10490	1000	11430 94	11500 101	29-132	1	30	u
Lead	73305699125	ND	100.0	94.10 94	97.80 98	33-145	4	43	u
Magnesium	*** usable MSS data not found ***								
Manganese	73305699125	10100	50.00	10200-200	10200 200	32-146	0	20	u
Molybdenum	73305699125	7.530	400.0	423.0 104	429.0 105	52-130	1	26	u
Nickel	73305699125	15.30 J	500.0	494.0 96	489.0 95	50-132	1	28	u
Selenium	73305699125	ND	100.0	87.40 87	87.50 88	49-140	0	36	u
Silver	73305699125	ND	50.00	60.60 121	57.90 116	36-137	5	22	u
Thallium	73305699125	8.070	100.0	114.0 106	123.0 115	31-141	8	49	u
Vanadium	73305699125	36.30	500.0	533.0 99	532.0 99	53-135	0	21	u
Zinc	73305699125	341.0	500.0	883.0 108	881.0 108	39-142	0	26	u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instd	:	MET07	Instd	:	MET07
Seqnum	:	73305699128	Seqnum	:	73305699129
Filename	:	tr212091	Filename	:	tr212092
IDF	:	1.0	IDF	:	1.0
PDF	:	1.0	PDF	:	1.0
Run type	:	MS	Run type	:	MSD
Samplenum	:	QC220727	Samplenum	:	QC220728
Matrix	:	Water	Matrix	:	Water
Batchnum	:	83290	Batchnum	:	83290
Inj	:	31-JUL-2003 17:42	Inj	:	31-JUL-2003 17:45
Units	:	ug/L		:	

MSS : 166554-002

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim2Rec	RPD	Lim	Flags
Titanium	73305699125	36.80	1000	1030 99	1040 100	58-122	1	20	u

Analysis Report

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Method: 6010B Sample Name: 03ws1109
 Run Time: 07/31/03 06:59:50
 Comment: 83259,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1010.	1000.	506.	999.	101.	101.	202.
SDev	39.	27.	2.	2.	.	.	1.
%RSD	3.81	2.71	.442	.171	.118	.112	.387
#1	986.	983.	504.	1000.	101.	101.	202.
#2	1040.	1020.	507.	998.	101.	101.	201.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	507.	200.	507.	503.	1010.	505.	509.
SDev	1.	.	7.	1.	2.	.	18.
%RSD	.200	.224	1.28	.209	.166	.005	3.46
#1	508.	201.	512.	504.	1010.	505.	521.
#2	506.	200.	502.	503.	1010.	505.	497.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	502.	100.	501.	503.	101.	997.4	2031.
SDev	6.	1.	6.	1.	.	5.9	.
%RSD	1.17	.601	1.23	.216	.296	.5883	.0185
#1	507.	101.	496.	504.	101.	1002.	2032.
#2	498.	100.0	505.	502.	100.	993.3	2031.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1006.	2021.	101.	505.	1010.	505.	1010.
SDev	5.	5.	.	3.	31.	10.	2.
%RSD	.5355	.2599	.081	.569	3.08	1.94	.182
#1	1003.	2025.	101.	507.	984.	512.	1010.
#2	1010.	2017.	101.	503.	1030.	498.	1000.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1149
 Run Time: 07/31/03 07:16:59
 Comment: 83259,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	542.	532.	245.	486.	50.0	47.7	98.9
SDev	14.	14.	6.	.	.0	.0	.1
%RSD	2.49	2.71	2.58	.012	.091	.094	.109
#1	532.	522.	240.	486.	50.0	47.7	99.0
#2	551.	542.	249.	486.	50.1	47.6	98.8
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	245.	103.	248.	246.	496.	248.	239.
SDev	1.	.	2.	3.	2.	1.	4.
%RSD	.225	.406	.674	1.08	.493	.397	1.60
#1	245.	102.	247.	245.	498.	247.	241.
#2	245.	103.	249.	248.	495.	248.	236.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.	50.5	228.	246.	48.0	464.9	1027.
SDev	6.	.1	5.	.	.1	2.1	2.
%RSD	2.51	.160	2.16	.127	.305	.4568	.2182
#1	241.	50.5	224.	246.	47.9	463.4	1025.
#2	250.	50.4	231.	246.	48.1	466.4	1028.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	479.0	995.1	49.1	247.	535.	243.	504.
SDev	5.9	3.0	.1	2.	14.	3.	1.
%RSD	1.235	.3055	.130	.944	2.63	1.17	.205
#1	474.8	997.3	49.1	245.	525.	241.	503.
#2	483.1	993.0	49.2	249.	545.	245.	505.

Analysis Report

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page 1

Method: 6010B Sample Name: icb
 Run Time: 07/31/03 07:21:19
 Comment: 83259,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.4	3.20	-.475	.139	-.864	.031	-.575
SDev	13.3	.27	2.891	.129	.417	.365	.411
%RSD	99.0	8.53	608.	93.1	48.3	1180.	71.5
#1	22.8	3.40	-2.52	.047	-.569	-.227	-.865
#2	4.03	3.01	1.57	.230	-1.16	.289	-.284
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.415	1.06	-3.84	-2.69	3.36	.020	.364
SDev	.112	.12	3.77	3.69	1.31	1.06	5.14
%RSD	27.0	11.5	98.2	137.	39.0	5260.	1410.
#1	.335	.971	-6.51	-.083	4.29	-.731	-3.27
#2	.494	1.14	-1.18	-5.31	2.43	.771	4.00
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.540	-.339	-2.50	-.225	.048	-47.88	29.60
SDev	1.155	1.204	6.17	.840	.030	13.60	1.46
%RSD	214.	355.	247.	374.	62.7	28.40	4.948
#1	.277	-1.19	-6.87	-.819	.027	-57.50	30.63
#2	-1.36	.512	1.86	.369	.069	-38.27	28.56
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.510	1.246	-.047	-3.08	6.61	-.239	1.38
SDev	9.835	4.028	.049	1.20	4.61	.943	.32
%RSD	391.8	323.2	104.	39.1	69.7	395.	23.3
#1	4.445	4.094	-.013	-2.23	9.87	-.905	1.60
#2	-9.465	-1.602	-.082	-3.93	3.35	.428	1.15

Analysis Report

07/31/03 07:44:01 AM

page 1

Method: 6010B

Sample Name: ~~03ws897~~

Operator: pps

Run Time: 07/31/03 07:35:04

Comment: 83259,1

Mode: CONC Corr. Factor: 1

08WSC897

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	76.9	67.8	4.08	9.65	1.57	4.39	8.72
SDev	2.9	4.3	.83	.04	.11	.02	.38
%RSD	3.76	6.30	20.3	.437	6.71	.360	4.38

#1	74.9	64.8	4.67	9.62	1.65	4.38	8.45
#2	78.9	70.8	3.50	9.68	1.50	4.41	8.99

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.1	10.8	4.23	2.26	16.9	18.8	5.12
SDev	.4	.1	.76	1.69	2.9	.2	1.43
%RSD	2.17	.695	18.1	74.8	17.4	1.30	28.0

#1	18.9	10.7	4.77	1.06	14.8	19.0	6.13
#2	19.4	10.9	3.69	3.45	19.0	18.6	4.11

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.27	4.08	6.35	10.0	20.3	100.4	248.4
SDev	.27	.71	4.50	.3	.3	3.7	.8
%RSD	3.32	17.3	70.9	2.87	1.26	3.659	.3402

#1	8.08	3.59	3.17	9.83	20.1	97.84	247.8
#2	8.46	4.58	9.54	10.2	20.4	103.0	249.0

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	77.99	203.9	9.81	2.92	70.8	7.22	.612
SDev	7.80	4.1	.15	.87	3.8	.29	.257
%RSD	9.998	2.004	1.50	29.9	5.38	4.08	42.1
#1	83.50	201.0	9.71	2.30	68.1	7.43	.430
#2	72.48	206.8	9.92	3.53	73.5	7.01	.794

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089
 Run Time: 07/31/03 07:45:09
 Comment: 83259,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	475.	530.	529.	491.	512.	944.	481.
SDev	82.	7.	4.	2.	4.	4.	3.
%RSD	17.3	1.23	.835	.498	.794	.456	.716
#1	417.	534.	532.	489.	509.	941.	479.
#2	533.	525.	526.	493.	515.	947.	483.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	481.	530.	919.	790.	456.	1030.	549.
SDev	4.	6.	4.	132.	39.	6.	3.
%RSD	.736	1.06	.445	16.7	8.59	.622	.603
#1	478.	526.	922.	697.	428.	1030.	551.
#2	483.	534.	917.	883.	483.	1040.	547.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	463.	1050.	456.	496.	998.	498200.	484000.
SDev	55.	8.	3.	1.	9.	6105.	3749.
%RSD	11.8	.812	.591	.110	.926	1.225	.7745
#1	424.	1040.	458.	495.	992.	493900.	481400.
#2	502.	1050.	454.	496.	1000.	502500.	486700.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	187700.	523000.	497.	833.	511.	492.	2040.
SDev	1980.	4404.	4.	87.	23.	35.	28.
%RSD	1.055	.8421	.883	10.4	4.49	7.20	1.37
#1	186300.	519900.	494.	772.	495.	467.	2020.
#2	189100.	526100.	500.	894.	528.	517.	2060.

analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150 Operator: pps
 Run Time: 07/31/03 08:35:40
 Comment: 83303,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	482.	260.	502.	51.5	50.7	101.
SDev	13.	4.	3.	1.	.1	.0	.
%RSD	2.66	.771	1.00	.101	.262	.023	.177
#1	495.	479.	262.	503.	51.6	50.7	102.
#2	514.	484.	258.	502.	51.4	50.7	101.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.	106.	246.	235.	485.	256.	240.
SDev	.	.	9.	26.	28.	1.	8.
%RSD	.140	.025	3.57	10.9	5.73	.320	3.26
#1	253.	106.	240.	217.	466.	256.	234.
#2	254.	106.	252.	253.	505.	257.	245.
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.	51.1	244.	253.	51.7	482.5	1053.
SDev	4.	1.1	7.	.	.2	7.4	4.
%RSD	1.71	2.11	2.68	.158	.368	1.526	.3352
#1	250.	50.3	240.	252.	51.9	487.7	1056.
#2	256.	51.9	249.	253.	51.6	477.3	1051.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	501.6	1030.	50.4	239.	489.	248.	516.
SDev	14.6	5.	.1	20.	7.	5.	4.
%RSD	2.916	.5230	.296	8.35	1.42	2.21	.724
#1	511.9	1034.	50.5	225.	484.	244.	513.
#2	491.2	1026.	50.3	253.	494.	252.	518.

analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 08:43:34
 Comment: 83303,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	36.5	10.6	-1.17	.273	-1.22	.033	-.680
SDev	19.6	.2	2.35	.070	.31	.316	.185
%RSD	53.6	2.35	201.	25.6	24.9	966.	27.2
#1	50.3	10.8	-2.83	.322	-1.01	-.191	-.811
#2	22.7	10.4	.490	.223	-1.44	.256	-.550
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.345	2.92	-2.74	3.97	4.57	-.462	-3.89
SDev	.004	.20	3.60	3.77	.07	.411	3.60
%RSD	1.03	6.69	132.	94.9	1.52	88.8	92.5
#1	-.343	3.06	-5.28	6.64	4.62	-.752	-6.43
#2	-.348	2.79	-.192	1.31	4.52	-.172	-1.34
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.12	-1.05	-4.68	-.250	.465	-75.08	78.97
SDev	.86	1.11	5.17	.629	.093	6.42	1.52
%RSD	10.6	106.	111.	252.	19.9	8.548	1.919
#1	7.51	-1.83	-8.34	-.695	.531	-79.62	80.04
#2	8.72	-.263	-1.02	.195	.400	-70.54	77.90
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.071	.1579	.090	1.74	19.2	4.12	2.58
SDev	6.008	6.672	.108	1.31	6.7	1.77	.74
%RSD	98.95	4225.	119.	75.7	34.8	43.0	28.7
#1	-1.823	4.875	.167	2.67	24.0	2.86	3.11
#2	-10.32	-4.560	.014	.807	14.5	5.37	2.06

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: pps

Run Time: 07/31/03 09:35:43

Comment: 83303,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	826.	789.	385.	745.	77.8	73.7	151.
SDev	13.	9.	1.	4.	.3	.6	1.
%RSD	1.56	1.10	.212	.556	.370	.760	.483
#1	817.	783.	386.	742.	77.6	73.3	151.
#2	835.	795.	385.	748.	78.0	74.1	152.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	375.	155.	373.	380.	755.	380.	367.
SDev	2.	1.	.	8.	12.	2.	7.
%RSD	.578	.624	.091	2.21	1.59	.564	1.97
#1	373.	155.	373.	374.	747.	379.	372.
#2	377.	156.	373.	385.	764.	382.	362.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	372.	74.5	363.	373.	76.3	757.4	1552.
SDev	.	.3	4.	2.	.1	3.4	.
%RSD	.039	.347	1.06	.558	.176	.4482	.0224
#1	372.	74.3	360.	372.	76.2	755.0	1552.
#2	372.	74.7	365.	375.	76.4	759.8	1552.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	793.6	1547.	75.5	377.	801.	371.	765.
SDev	15.0	2.	.2	6.	10.	2.	5.
%RSD	1.895	.1581	.318	1.51	1.25	.626	.623
#1	804.2	1546.	75.4	373.	794.	372.	762.
#2	783.0	1549.	75.7	381.	809.	369.	768.

Analysis Report

07/31/03 09:50:38 AM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 09:47:38
 Comment: 83303,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.18	-7.07	.136	.095	-1.24	.165	-.681
SDev	5.60	2.04	1.18	.009	.01	.231	.062
%RSD	257.	28.8	867.	9.20	.900	140.	9.03
#1	-1.78	-8.51	.968	.089	-1.25	.329	-.637
#2	6.14	-5.63	-.696	.101	-1.23	.002	-.724
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.248	2.98	3.66	.986	.394	-.265	-.541
SDev	.167	.03	.28	3.39	1.36	.644	3.061
%RSD	67.1	.849	7.57	344.	344.	243.	566.
#1	.366	2.96	3.46	3.38	-.566	-.720	1.62
#2	.131	3.00	3.85	-1.41	1.35	.191	-2.71
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.721	-.643	-4.21	-.421	1.40	-68.07	75.65
SDev	2.342	.293	7.10	.275	.11	2.53	.13
%RSD	325.	45.6	169.	65.3	7.78	3.714	.1653
#1	.935	-.851	-9.23	-.616	1.47	-66.28	75.73
#2	-2.38	-.436	.814	-.227	1.32	-69.85	75.56
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.759	-.9523	.083	1.88	-3.99	-.661	1.50
SDev	5.287	.3891	.058	2.17	3.23	2.582	.05
%RSD	111.1	40.86	69.6	115.	80.9	390.	3.51
#1	-1.021	-1.227	.123	3.41	-6.27	1.16	1.54
#2	-8.498	-.6772	.042	.345	-1.71	-2.49	1.47

Analysis Report

07/31/03 10:51:49 AM

page 1

Method: 6010B Sample Name: 03ws1152

Operator: mw

Run Time: 07/31/03 10:38:07

Comment: 83303,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	282.	271.	130.	252.	25.9	25.0	51.3
SDev	3.	1.	7.	.	.1	.0	.5
%RSD	1.15	.189	5.61	.073	.316	.031	.980
#1	279.	271.	125.	252.	25.9	25.0	51.6
#2	284.	272.	135.	252.	25.8	25.0	50.9
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	128.	54.9	131.	129.	254.	128.	134.
SDev	1.	.4	3.	1.	2.	1.	3.
%RSD	.691	.705	2.64	.675	.805	.476	2.45
#1	128.	55.1	134.	128.	252.	128.	131.
#2	127.	54.6	129.	129.	255.	127.	136.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	128.	25.4	124.	128.	26.4	259.6	517.0
SDev	1.	.2	1.	.	.2	3.1	3.2
%RSD	1.09	.717	1.20	.273	.579	1.179	.6129
#1	127.	25.5	123.	128.	26.5	261.7	519.2
#2	129.	25.3	125.	127.	26.3	257.4	514.7
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	273.7	519.5	25.8	130.	275.	130.	266.
SDev	16.4	2.4	.1	1.	1.	2.	.
%RSD	5.973	.4552	.453	.444	.517	1.55	.068
#1	285.3	521.2	25.9	130.	274.	128.	266.
#2	262.2	517.8	25.7	129.	276.	131.	265.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 10:55:23
 Comment: 83303,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.8	13.7	-2.02	.133	-.113	.168	-.244
SDev	4.1	4.4	.74	.009	.017	.019	.554
%RSD	24.2	32.1	36.9	6.55	14.9	11.2	227.
#1	19.6	10.6	-1.49	.126	-.125	.154	-.636
#2	13.9	16.8	-2.54	.139	-.101	.181	.147
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.642	2.64	1.40	-2.10	1.49	.034	-.065
SDev	.056	.10	.93	2.17	.96	.044	.650
%RSD	8.73	3.98	66.3	104.	64.7	132.	1010.
#1	.682	2.71	.743	-.560	2.17	.065	-.524
#2	.602	2.56	2.05	-3.63	.808	.002	.395
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.03	-.110	-.030	.025	1.59	-1.413	-11.51
SDev	6.09	.450	5.187	.019	.10	.257	.53
%RSD	201.	410.	17300.	76.6	6.50	18.23	4.599
#1	7.34	-.428	3.64	.012	1.52	-1.231	-11.88
#2	-1.28	.209	-3.70	.039	1.66	-1.595	-11.14
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-12.83	-3.977	-.037	-.931	14.7	2.00	1.99
SDev	.94	1.569	.038	1.139	1.6	3.85	.01
%RSD	7.344	39.45	104.	122.	10.7	192.	.429
#1	-13.50	-2.867	-.064	-.126	13.6	4.72	2.00
#2	-12.17	-5.087	-.010	-1.74	15.8	-.719	1.98

Analysis Report

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page 1

Method: 6010B

Sample Name: 03ws1150

Operator: mw

Run Time: 07/31/03 11:45:18

Comment: 83173,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	464.	458.	254.	499.	51.7	49.6	100.
SDev	16.	14.	4.	.	.1	.5	.
%RSD	3.36	3.04	1.65	.003	.158	1.02	.310
#1	453.	448.	251.	499.	51.7	49.2	99.8
#2	475.	467.	257.	499.	51.8	49.9	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	102.	249.	244.	482.	255.	250.
SDev	1.	.	4.	16.	20.	.	4.
%RSD	.285	.154	1.54	6.53	4.12	.021	1.48
#1	250.	103.	246.	232.	468.	255.	252.
#2	251.	102.	252.	255.	496.	255.	247.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	50.2	238.	249.	51.0	506.4	960.6
SDev	5.	.3	4.	1.	.2	8.7	.7
%RSD	2.04	.564	1.74	.235	.364	1.725	.0687
#1	246.	50.0	235.	248.	50.9	500.2	961.1
#2	253.	50.4	241.	249.	51.2	512.6	960.1
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	475.4	1011.	48.9	245.	460.	250.	510.
SDev	13.6	7.	.0	12.	14.	2.	5.
%RSD	2.856	.6872	.026	4.84	3.14	.865	.883
#1	465.8	1006.	48.9	237.	450.	248.	507.
#2	485.0	1016.	48.9	254.	470.	251.	513.

analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 11:52:13
 Comment: 83173,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.5	.310	2.51	.090	.722	.219	-.239
SDev	1.2	4.08	2.69	.039	.039	.212	.063
%RSD	11.8	1310.	107.	43.0	5.35	96.7	26.4
#1	9.61	-2.57	4.42	.117	.694	.369	-.194
#2	11.4	3.19	.609	.063	.749	.069	-.283
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.442	1.48	-2.15	-1.03	2.38	-.214	8.22
SDev	.282	.02	2.35	6.19	.27	.075	4.98
%RSD	63.9	1.42	109.	603.	11.3	35.1	60.5
#1	.641	1.46	-3.82	3.35	2.57	-.267	4.70
#2	.242	1.49	-.488	-5.41	2.19	-.161	11.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.14	-.328	-1.10	-.308	.963	19.57	-33.29
SDev	3.76	.010	2.23	.187	.026	4.18	.21
%RSD	176.	3.03	202.	60.8	2.67	21.34	.6184
#1	.522	-.335	-2.68	-.440	.981	16.61	-33.43
#2	-4.80	-.321	.476	-.175	.945	22.52	-33.14
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-20.82	-.9064	.011	-1.40	3.70	1.31	2.59
SDev	6.42	1.9709	.126	3.34	3.13	.85	.01
%RSD	30.82	217.4	1120.	238.	84.6	64.7	.512
#1	-16.28	-2.300	.100	.962	1.49	1.92	2.58
#2	-25.36	.4872	-.078	-3.77	5.92	.713	2.60

Analysis Report

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page 1

Method: 6010B

Sample Name: 03ws1151

Operator: mw

Run Time: 07/31/03 12:37:12

Comment: 83173,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	788.	767.	394.	748.	77.6	75.6	151.
SDev	14.	16.	2.	4.	.3	.1	1.
%RSD	1.77	2.04	.495	.479	.406	.095	.556
#1	779.	756.	395.	746.	77.4	75.7	151.
#2	798.	778.	393.	751.	77.8	75.6	152.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374.	151.	375.	373.	739.	383.	375.
SDev	2.	1.	5.	13.	24.	.	.
%RSD	.479	.546	1.23	3.53	3.22	.030	.045
#1	372.	150.	371.	363.	722.	383.	375.
#2	375.	151.	378.	382.	756.	383.	375.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	380.	72.9	372.	368.	77.1	757.5	1457.
SDev	4.	.2	1.	1.	.0	7.4	10.
%RSD	1.08	.278	.261	.389	.013	.9786	.6547
#1	383.	72.7	371.	367.	77.0	752.2	1464.
#2	377.	73.0	373.	369.	77.1	762.7	1450.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	731.4	1577.	72.3	373.	774.	378.	757.
SDev	7.3	19.	.3	10.	15.	3.	5.
%RSD	.9997	1.190	.417	2.76	1.95	.735	.661
#1	736.6	1590.	72.1	366.	764.	380.	754.
#2	726.2	1563.	72.5	381.	785.	376.	761.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 12:43:32
 Comment: 83173,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.3	2.32	2.02	.157	1.50	-.003	-.139
SDev	.0	7.72	1.63	.086	.05	.204	.003
%RSD	.365	332.	80.8	55.1	3.20	6120.	1.98
#1	10.3	7.78	3.17	.218	1.47	.141	-.137
#2	10.3	-3.13	.866	.095	1.54	-.147	-.141
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.254	.930	-1.87	2.03	5.41	.152	5.64
SDev	.375	.336	.19	.96	2.88	1.05	3.02
%RSD	148.	36.2	10.4	47.4	53.3	688.	53.4
#1	-.011	1.17	-1.73	1.35	7.45	.893	3.51
#2	.519	.692	-2.00	2.71	3.37	-.588	7.78
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.07	.154	4.11	.037	1.81	43.43	-40.52
SDev	6.20	.246	4.65	.672	.05	2.35	1.45
%RSD	152.	160.	113.	1830.	2.83	5.420	3.589
#1	-8.45	.328	7.40	.512	1.77	41.76	-39.49
#2	.310	-.020	.821	-.439	1.84	45.09	-41.55
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-22.40	15.60	-.021	.730	4.98	-.833	3.66
SDev	7.62	1.13	.049	.576	5.16	5.136	.30
%RSD	34.00	7.253	229.	78.9	104.	617.	8.29
#1	-27.79	14.80	-.056	.323	8.63	-4.46	3.88
#2	-17.01	16.39	.013	1.14	1.33	2.80	3.45

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 07/31/03 13:42:45

Comment: 83297,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.	503.	254.	485.	51.7	49.0	99.0
SDev	1.	.	2.	1.	.0	.0	.4
%RSD	.283	.080	.789	.123	.047	.086	.367
#1	509.	502.	253.	485.	51.7	49.0	99.2
#2	507.	503.	256.	485.	51.7	49.0	98.7
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	243.	100.	242.	248.	500.	246.	243.
SDev	.	.	1.	.	1.	.	11.
%RSD	.166	.293	.478	.177	.120	.122	4.38
#1	243.	101.	242.	248.	501.	247.	251.
#2	244.	100.	243.	248.	500.	246.	236.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240.	50.2	238.	244.	49.8	506.8	926.8
SDev	1.	.8	11.	.	.2	.2	.3
%RSD	.214	1.69	4.52	.066	.372	.0316	.0301
#1	240.	50.8	245.	244.	49.9	506.7	927.0
#2	239.	49.6	230.	244.	49.7	506.9	926.6
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	457.3	985.0	48.1	246.	504.	241.	502.
SDev	3.8	2.7	.0	.	.	4.	.
%RSD	.8207	.2700	.064	.038	.042	1.61	.088
#1	459.9	986.9	48.2	246.	505.	244.	502.
#2	454.6	983.1	48.1	246.	504.	238.	502.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 13:47:29
 Comment: 83297,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	32.9	20.1	.309	.153	.020	-.006	-.340
SDev	8.7	4.0	1.18	.066	.042	.072	.285
%RSD	26.5	19.8	380.	43.4	208.	1180.	83.6
#1	39.0	22.9	1.14	.200	-.009	.045	-.139
#2	26.7	17.3	-.522	.106	.050	-.057	-.541
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.357	-.065	-2.58	1.17	6.41	-.601	-7.47
SDev	.459	.119	.66	1.14	4.30	.210	9.57
%RSD	129.	183.	25.7	97.1	67.2	34.9	128.
#1	.681	.019	-2.11	1.97	9.45	-.453	-.703
#2	.033	-.150	-3.05	.366	3.36	-.750	-14.2
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.15	-.141	-2.61	-.317	1.20	-1.607	.5926
SDev	4.33	.271	6.63	.019	.09	1.277	.7745
%RSD	104.	192.	254.	6.06	7.46	79.42	130.7
#1	-7.21	.051	-7.30	-.331	1.26	-.7047	.0449
#2	-1.09	-.333	2.08	-.304	1.13	-2.510	1.140
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.978	-.2842	-.020	-.081	24.4	-5.26	3.84
SDev	.993	.3898	.085	.979	5.5	.30	.52
%RSD	33.36	137.1	430.	1210.	22.8	5.76	13.5
#1	2.276	-.5598	-.080	.611	28.3	-5.04	4.21
#2	3.680	-.0086	.040	-.773	20.4	-5.47	3.48

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 07/31/03 14:23:19

Comment: 83302,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	456.	507.	559.	517.	506.	1000.	491.
SDev	43.	11.	7.	.	1.	1.	1.
%RSD	9.37	2.07	1.24	.033	.197	.102	.232
#1	426.	500.	564.	518.	506.	1000.	490.
#2	486.	515.	554.	517.	507.	1000.	492.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	490.	530.	943.	845.	481.	1060.	552.
SDev	.	3.	12.	90.	30.	.	12.
%RSD	.040	.505	1.23	10.7	6.30	.031	2.20
#1	490.	528.	934.	781.	460.	1060.	560.
#2	490.	532.	951.	909.	502.	1060.	543.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	1040.	494.	499.	1040.	509200.	455700.
SDev	40.	6.	10.	.	4.	1878.	785.
%RSD	7.98	.530	2.08	.047	.398	.3689	.1723
#1	476.	1040.	487.	499.	1030.	507800.	455200.
#2	533.	1050.	501.	499.	1040.	510500.	456300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	181500.	517600.	487.	878.	490.	520.	2080.
SDev	739.	1210.	1.	64.	21.	23.	12.
%RSD	.4073	.2338	.193	7.31	4.34	4.38	.574
#1	181000.	516700.	486.	832.	475.	504.	2070.
#2	182000.	518400.	487.	923.	505.	536.	2090.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 07/31/03 14:29:34

Comment: 83302,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	790.	789.	390.	741.	76.5	74.2	150.
SDev	28.	11.	6.	1.	.1	.2	1.
%RSD	3.52	1.34	1.51	.080	.088	.229	.383
#1	771.	782.	385.	741.	76.4	74.0	150.
#2	810.	797.	394.	740.	76.5	74.3	151.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	149.	362.	353.	729.	378.	376.
SDev	1.	.	11.	36.	39.	1.	2.
%RSD	.365	.237	3.14	10.1	5.31	.328	.646
#1	368.	149.	354.	328.	702.	377.	378.
#2	370.	149.	370.	379.	756.	379.	375.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	373.	71.7	355.	366.	75.3	795.5	1464.
SDev	12.	.9	8.	1.	.3	2.2	9.
%RSD	3.18	1.27	2.33	.224	.346	.2748	.6382
#1	365.	71.0	360.	365.	75.2	797.1	1470.
#2	382.	72.3	349.	366.	75.5	794.0	1457.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	729.5	1513.	71.4	356.	790.	374.	748.
SDev	5.1	4.	.0	27.	16.	7.	5.
%RSD	.6945	.2913	.013	7.72	2.07	1.90	.607
#1	726.0	1516.	71.4	337.	778.	369.	745.
#2	733.1	1510.	71.4	376.	801.	379.	752.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 14:34:29
 Comment: 83302,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.9	7.81	-2.15	.141	.954	.435	-.127
SDev	9.0	3.86	3.93	.064	.029	.164	.128
%RSD	64.5	49.4	183.	45.5	3.03	37.8	101.
#1	20.2	5.08	-4.93	.186	.934	.318	-.036
#2	7.56	10.5	.630	.095	.975	.551	-.217
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.557	-.959	1.16	-.123	9.41	-.203	6.74
SDev	.350	.382	.78	.171	2.53	.255	2.84
%RSD	62.8	39.8	67.1	139.	26.9	126.	42.1
#1	.804	-.689	1.71	-.244	11.2	-.022	4.73
#2	.309	-1.23	.610	-.002	7.63	-.383	8.74
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.179	-.041	2.87	-.141	1.75	44.79	-3.808
SDev	9.333	.031	8.12	.257	.15	3.18	4.980
%RSD	5220.	74.4	284.	182.	8.46	7.106	130.8
#1	-6.78	-.020	-2.88	.040	1.86	47.04	-.2861
#2	6.42	-.063	8.61	-.323	1.65	42.54	-7.330
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.40	15.40	-.063	.305	9.84	2.13	4.37
SDev	7.10	2.40	.068	.146	.42	7.17	.31
%RSD	53.00	15.62	108.	47.7	4.22	337.	7.00
#1	8.381	17.10	-.015	.408	10.1	-2.94	4.59
#2	18.43	13.70	-.110	.202	9.55	7.20	4.15

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150
 Run Time: 07/31/03 15:20:01
 Comment: 83296,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	464.	469.	259.	496.	51.6	50.5	98.7
SDev	17.	3.	2.	4.	.4	.1	.3
%RSD	3.56	.630	.848	.740	.705	.115	.300
#1	452.	467.	260.	498.	51.9	50.5	98.9
#2	476.	471.	257.	493.	51.4	50.4	98.5
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	245.	97.3	241.	240.	481.	254.	240.
SDev	1.	.6	5.	22.	19.	1.	10.
%RSD	.463	.664	2.19	9.30	3.88	.309	4.03
#1	246.	97.8	237.	224.	468.	254.	247.
#2	245.	96.9	245.	255.	494.	253.	233.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.	48.4	242.	241.	51.9	537.7	911.5
SDev	1.	.6	5.	2.	.5	11.4	9.7
%RSD	.561	1.16	2.13	.640	.943	2.118	1.068
#1	245.	48.0	245.	243.	52.2	545.8	918.4
#2	247.	48.8	238.	240.	51.5	529.7	904.6
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	524.0	993.8	47.9	240.	467.	244.	509.
SDev	10.1	8.1	.5	17.	7.	2.	3.
%RSD	1.932	.8183	1.08	6.92	1.60	.944	.497
#1	531.2	999.5	48.3	228.	462.	245.	511.
#2	516.9	988.0	47.5	252.	472.	242.	507.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 15:24:43
 Comment: 83296,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.7	6.79	-1.02	.280	-.032	.405	.353
SDev	1.3	1.47	.90	.058	.009	.141	.132
%RSD	6.06	21.6	88.5	20.7	28.4	34.9	37.3
#1	21.6	7.83	-1.65	.321	-.026	.505	.446
#2	19.8	5.75	-.381	.239	-.038	.305	.260
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.680	-1.92	-2.05	5.18	7.77	-.072	1.58
SDev	.059	.29	5.43	.60	4.70	.066	4.83
%RSD	8.73	15.3	265.	11.6	60.5	90.7	306.
#1	.722	-2.12	1.79	5.61	11.1	-.119	-1.84
#2	.638	-1.71	-5.89	4.76	4.45	-.026	5.00
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.491	-.121	-1.89	-.129	2.28	71.80	5.924
SDev	4.249	.250	.16	.104	.18	2.36	1.959
%RSD	865.	206.	8.64	80.4	7.93	3.288	33.07
#1	2.51	-.298	-2.00	-.056	2.41	70.13	7.310
#2	-3.50	.055	-1.77	-.202	2.15	73.47	4.539
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26.16	9.399	.453	2.77	11.4	.198	7.29
SDev	5.62	4.898	.016	2.21	1.4	1.22	.43
%RSD	21.50	52.11	3.52	79.8	12.2	616.	5.92
#1	30.14	5.936	.464	4.34	12.4	1.06	7.60
#2	22.18	12.86	.442	1.21	10.4	-.666	6.99

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 07/31/03 16:08:16

Comment: 83296,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	469.	480.	254.	494.	51.1	49.2	100.
SDev	14.	6.	3.	2.	.1	.2	.
%RSD	2.97	1.35	1.07	.338	.252	.437	.347
#1	459.	475.	252.	495.	51.2	49.4	101.
#2	479.	484.	256.	493.	51.0	49.1	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	101.	242.	234.	477.	252.	252.
SDev	1.	.	4.	20.	23.	1.	4.
%RSD	.212	.063	1.55	8.46	4.85	.203	1.51
#1	249.	101.	240.	220.	461.	252.	250.
#2	248.	101.	245.	248.	494.	252.	255.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	233.	49.1	243.	249.	51.1	510.2	1000.
SDev	16.	.6	4.	.	.1	12.7	9.
%RSD	6.94	1.19	1.62	.017	.224	2.483	.9487
#1	221.	48.7	240.	249.	51.2	519.1	1007.
#2	244.	49.6	246.	249.	51.0	501.2	993.3
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	546.6	1028.	50.7	236.	476.	239.	515.
SDev	14.6	8.	.6	14.	9.	12.	1.
%RSD	2.675	.7754	1.21	6.10	1.89	5.03	.212
#1	556.9	1033.	51.1	226.	470.	231.	516.
#2	536.2	1022.	50.3	247.	482.	248.	514.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 16:18:15
 Comment: 83296,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	53.1	47.1	-2.29	.243	.030	.122	-.045
SDev	14.8	9.8	1.16	.037	.026	.093	.066
%RSD	27.8	20.8	50.5	15.1	87.1	75.7	149.

#1	63.5	54.1	-1.47	.269	.011	.057	-.092
#2	42.6	40.2	-3.11	.217	.048	.188	.002

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.06	-2.93	-3.04	-2.82	2.91	-.381	5.82
SDev	.39	.22	.60	1.14	.24	.015	3.38
%RSD	36.3	7.60	19.8	40.3	8.25	3.93	58.1

#1	.791	-3.08	-2.62	-2.02	3.08	-.392	8.20
#2	1.34	-2.77	-3.47	-3.63	2.74	-.370	3.43

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.766	.547	-1.37	.136	2.52	5.967	1.326
SDev	5.180	.086	2.22	.023	.07	.848	.187
%RSD	676.	15.7	162.	17.2	2.87	14.22	14.08

#1	-4.43	.608	-2.94	.120	2.46	6.567	1.458
#2	2.90	.487	.203	.153	2.57	5.367	1.194

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.143	9.437	.219	-2.90	49.1	1.43	.609
SDev	7.479	2.095	.040	.96	11.4	2.33	.094
%RSD	121.8	22.19	18.3	33.1	23.3	163.	15.4

#1	.8543	10.92	.248	-2.22	57.2	-.218	.675
#2	11.43	7.956	.191	-3.58	41.0	3.07	.543

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151 Operator: mw
 Run Time: 07/31/03 17:01:14
 Comment: 83296,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	824.	826.	377.	743.	76.7	73.9	150.
SDev	21.	8.	2.	.	.2	.0	.
%RSD	2.49	.945	.626	.045	.249	.046	.164
#1	810.	821.	378.	743.	76.8	73.9	150.
#2	839.	832.	375.	743.	76.6	73.9	149.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	150.	371.	365.	740.	379.	379.
SDev	.	.	1.	15.	16.	1.	2.
%RSD	.094	.299	.386	4.02	2.18	.216	.549
#1	369.	151.	370.	355.	729.	380.	378.
#2	370.	150.	372.	375.	752.	379.	380.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	71.8	370.	368.	75.6	773.1	1456.
SDev	2.	.2	1.	1.	.0	6.3	15.
%RSD	.532	.341	.372	.205	.005	.8122	1.001
#1	367.	72.0	369.	369.	75.6	777.5	1466.
#2	370.	71.6	371.	368.	75.7	768.6	1446.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	795.2	1513.	73.4	367.	826.	372.	756.
SDev	25.6	7.	.5	10.	12.	2.	1.
%RSD	3.217	.4500	.615	2.80	1.46	.538	.122
#1	813.3	1518.	73.8	360.	817.	371.	757.
#2	777.1	1509.	73.1	374.	834.	374.	756.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 17:07:46
 Comment: 83296,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.53	-2.87	.475	.273	.916	.103	.252
SDev	1.99	.06	.323	.024	.041	.360	.002
%RSD	23.4	2.00	68.1	8.63	4.44	351.	.799
#1	-7.12	-2.91	.703	.290	.887	-.152	.251
#2	-9.94	-2.83	.246	.256	.945	.358	.254
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.153	-3.67	2.40	-1.37	4.25	.199	-4.23
SDev	.362	.23	1.27	.39	2.05	.402	10.48
%RSD	236.	6.22	52.9	28.5	48.3	203.	248.
#1	.409	-3.51	3.30	-1.09	5.70	.483	3.18
#2	-.102	-3.83	1.50	-1.65	2.80	-.086	-11.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.77	.526	-6.67	.136	2.71	29.59	-16.02
SDev	1.16	.043	3.24	.544	.06	3.44	1.20
%RSD	65.4	8.16	48.5	401.	2.25	11.62	7.467
#1	-2.59	.556	-4.38	-.249	2.75	32.02	-15.18
#2	-.950	.495	-8.97	.521	2.66	27.16	-16.87
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.73	8.429	.326	-.112	-4.75	-2.59	1.82
SDev	14.23	.442	.102	.684	.63	2.72	.35
%RSD	80.28	5.240	31.2	609.	13.2	105.	19.2
#1	27.79	8.117	.398	.371	-4.31	-.663	2.07
#2	7.664	8.741	.254	-.596	-5.20	-4.51	1.57

Analysis Report

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page 1

Method: 6010B Sample Name: qc220724
 Run Time: 07/31/03 17:11:17
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-11.6	-5.78	2.06	.091	.991	-.004	-.100
SDev	2.2	4.92	2.13	.009	.050	.360	.034
%RSD	19.0	85.1	104.	9.78	5.05	9680.	33.8
#1	-13.1	-2.30	.550	.097	1.03	.251	-.124
#2	-10.0	-9.26	3.56	.085	.955	-.259	-.076
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.558	-3.49	-3.35	-1.34	1.36	.408	-6.07
SDev	.271	.10	2.20	.03	2.53	.296	8.30
%RSD	48.6	2.94	65.5	2.53	185.	72.8	137.
#1	.366	-3.42	-1.80	-1.37	-.422	.198	-.200
#2	.749	-3.56	-4.91	-1.32	3.15	.617	-11.9
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.25	-.279	-5.89	-.376	2.76	24.53	-19.17
SDev	7.64	.482	2.43	.210	.14	1.17	.29
%RSD	180.	173.	41.2	55.8	5.04	4.754	1.535
#1	-9.66	-.620	-4.18	-.228	2.66	25.35	-18.97
#2	1.15	.062	-7.61	-.525	2.86	23.70	-19.38
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.8127	5.723	.133	-2.01	-7.71	-4.86	.752
SDev	2.949	1.702	.033	.71	2.55	2.33	.010
%RSD	362.8	29.73	24.6	35.3	33.0	48.0	1.38
#1	-1.272	6.927	.156	-1.51	-5.91	-6.51	.760
#2	2.898	4.520	.110	-2.51	-9.51	-3.21	.745

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Method: 6010B Sample Name: qc220725

Operator: mw

Run Time: 07/31/03 17:17:51

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	600.	610.	106.	2050.	53.2	50.9	201.
SDev	1.	7.	1.	1.	.1	.7	3.
%RSD	.185	1.15	.588	.062	.191	1.31	1.30
#1	601.	605.	105.	2060.	53.1	51.3	200.
#2	599.	615.	106.	2050.	53.3	50.4	203.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500.	255.	101.	100.	419.	506.	95.1
SDev	1.	.	1.	.	1.	2.	1.0
%RSD	.107	.164	1.34	.233	.242	.363	1.07
#1	499.	255.	100.	101.	418.	504.	95.8
#2	500.	255.	102.	100.	420.	507.	94.4
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	102.	50.4	98.8	509.	499.	2031.	19400.
SDev	2.	.2	13.0	1.	2.	.	23.
%RSD	2.26	.330	13.2	.126	.320	.0135	.1183
#1	100.	50.5	108.	508.	498.	2031.	19380.
#2	103.	50.3	89.5	509.	500.	2031.	19410.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	958.6	20250.	48.9	101.	607.	99.6	1020.
SDev	13.6	21.	.0	.	4.	1.2	2.
%RSD	1.414	.1036	.036	.295	.706	1.20	.152
#1	968.2	20240.	48.9	100.	604.	98.7	1020.
#2	949.0	20270.	48.9	101.	610.	100.	1020.

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page 1

Method: 6010B Sample Name: qc220726

Operator: mw

Run Time: 07/31/03 17:21:17

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	601.	622.	104.	2060.	53.5	50.8	201.
SDev	3.	1.	2.	2.	.1	.1	.
%RSD	.507	.159	2.10	.111	.159	.109	.246
#1	603.	622.	102.	2060.	53.4	50.9	200.
#2	599.	621.	105.	2060.	53.5	50.8	201.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	502.	255.	103.	101.	416.	509.	100.
SDev	.	.	.	2.	1.	.	2.
%RSD	.042	.028	.208	1.74	.247	.042	1.76
#1	502.	255.	102.	99.7	416.	509.	102.
#2	502.	255.	103.	102.	417.	509.	99.2
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	96.5	50.5	98.0	509.	501.	2023.	19380.
SDev	3.0	.6	.8	.	.	8.	8.
%RSD	3.06	1.28	.854	.023	.011	.3718	.0406
#1	98.6	51.0	98.6	509.	501.	2017.	19370.
#2	94.4	50.1	97.4	509.	501.	2028.	19390.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	956.1	20290.	48.7	102.	615.	97.8	1020.
SDev	8.1	25.	.1	1.	2.	2.6	1.
%RSD	.8454	.1254	.167	1.22	.272	2.62	.076
#1	950.4	20270.	48.8	101.	616.	99.6	1020.
#2	961.8	20310.	48.7	102.	614.	96.0	1020.

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Method: 6010B Sample Name: 166554-002 Operator: mw
 Run Time: 07/31/03 17:25:01
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-13.4	-4.46	28.8	350.	.188	1.60	11.0
SDev	5.2	2.22	.3	.	.067	.23	1.5
%RSD	38.9	49.7	.932	.061	35.7	14.4	13.7
#1	-9.74	-6.03	28.9	350.	.140	1.76	12.1
#2	-17.1	-2.89	28.6	350.	.235	1.44	9.94
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.39	3.78	.775	-4.13	7.53	15.3	-12.3
SDev	.24	.30	1.96	.93	.94	.3	4.6
%RSD	17.3	7.95	253.	22.4	12.5	2.07	37.3
#1	1.56	4.00	2.16	-3.47	8.20	15.1	-15.5
#2	1.22	3.57	-.614	-4.78	6.87	15.6	-9.05
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.51	.041	8.07	36.3	341.	457.0	620200.
SDev	5.36	1.53	11.0	.5	1.	.6	218.
%RSD	82.4	3780.	136.	1.43	.183	.1391	.0351
#1	-10.3	1.13	15.8	36.6	342.	457.4	620300.
#2	-2.71	-1.04	.302	35.9	341.	456.5	620000.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10490.	1883000.	10100.	-2.49	-7.45	-8.43	36.8
SDev	11.	187.	3.	1.27	.27	5.10	.7
%RSD	.1043	.0099	.029	51.0	3.56	60.5	1.84
#1	10500.	1883000.	10100.	-1.59	-7.26	-12.0	37.2
#2	10490.	1883000.	10100.	-3.39	-7.64	-4.83	36.3

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Method: 6010B Sample Name: qc220729

Operator: mw

Run Time: 07/31/03 17:29:18

Comment: 83290,5

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-13.2	-14.8	-.860	67.1	.804	.451	1.90
SDev	3.1	8.2	1.565	.1	.028	.138	.34
%RSD	23.6	55.4	182.	.166	3.45	30.5	17.7
#1	-15.4	-9.00	-1.97	67.1	.785	.354	2.13
#2	-11.0	-20.6	.246	67.0	.824	.548	1.66
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.296	-2.78	-3.37	.275	.968	2.64	-2.51
SDev	.375	.04	1.33	.057	.415	.09	2.69
%RSD	127.	1.60	39.4	20.6	42.9	3.42	107.
#1	.031	-2.75	-4.30	.315	1.26	2.70	-4.42
#2	.562	-2.81	-2.43	.235	.674	2.58	-.608
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.76	-.278	.516	6.70	67.6	195.3	131500.
SDev	2.24	.386	7.70	.18	.1	2.7	161.
%RSD	25.5	139.	1490.	2.63	.173	1.368	.1226
#1	-7.18	-.005	5.96	6.58	67.5	197.2	131600.
#2	-10.3	-.551	-4.93	6.83	67.7	193.5	131400.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2073.	369600.	1990.	-.938	-14.3	-6.68	11.2
SDev	8.	416.	4.	.404	4.4	.59	.1
%RSD	.3734	.1126	.193	43.1	31.0	8.88	.628
#1	2079.	369800.	2000.	-1.22	-11.1	-6.26	11.2
#2	2068.	369300.	1990.	-.652	-17.4	-7.09	11.1

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Method: 6010B Sample Name: 166554-002

Operator: mw

Run Time: 07/31/03 17:32:53

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.89	-11.1	23.9	348.	.075	1.58	10.5
SDev	.01	10.6	8.9	.	.137	.07	.6
%RSD	.098	95.0	37.2	.071	183.	4.50	6.05
#1	-7.89	-18.6	17.6	348.	-.022	1.53	10.0
#2	-7.90	-3.64	30.2	349.	.171	1.63	10.9
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.619	3.23	-7.25	-.090	1.80	13.4	-18.3
SDev	.619	.25	2.71	.140	.13	.9	4.7
%RSD	99.9	7.86	37.4	155.	7.11	6.65	25.8
#1	.182	3.41	-9.16	-.189	1.90	14.1	-14.9
#2	1.06	3.05	-5.33	.009	1.71	12.8	-21.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.98	-.252	15.5	34.6	333.	486.0	603300.
SDev	4.38	.105	15.0	.3	1.	6.7	1034.
%RSD	87.9	41.6	96.6	.769	.264	1.384	.1713
#1	-8.08	-.178	4.93	34.5	333.	490.8	602500.
#2	-1.88	-.327	26.2	34.8	334.	481.2	604000.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10200.	1829000.	9870.	-2.48	-10.0	-9.42	33.3
SDev	11.	3419.	15.	1.00	7.0	1.35	.0
%RSD	.1069	.1870	.151	40.3	70.1	14.3	.050
#1	10210.	1826000.	9860.	-3.18	-15.0	-10.4	33.3
#2	10200.	1831000.	9880.	-1.77	-5.06	-8.46	33.3

Analysis Report

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page 1

Method: 6010B Sample Name: qc220727
 Run Time: 07/31/03 17:42:29
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	649.	711.	145.	2360.	50.1	49.3	200.
SDev	43.	13.	2.	14.	.4	.1	.
%RSD	6.61	1.88	1.61	.605	.700	.283	.145
#1	618.	721.	143.	2350.	49.9	49.2	200.
#2	679.	702.	146.	2370.	50.4	49.4	200.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	478.	297.	104.	89.1	423.	494.	86.7
SDev	1.	2.	11.	8.9	15.	2.	5.9
%RSD	.251	.766	10.9	9.98	3.43	.364	6.76
#1	477.	295.	112.	82.8	413.	493.	90.8
#2	479.	298.	96.0	95.4	433.	495.	82.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	87.7	60.6	114.	533.	883.	2708.	639600.
SDev	16.1	3.5	7.	2.	7.	17.	2681.
%RSD	18.3	5.72	5.77	.363	.781	.6170	.4191
#1	76.3	63.0	109.	532.	878.	2696.	637700.
#2	99.1	58.1	119.	534.	888.	2720.	641500.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11430.	1920000.	10200.	94.1	690.	87.4	1030.
SDev	66.	8448.	38.	2.1	5.	8.8	12.
%RSD	.5758	.4400	.372	2.29	.775	10.0	1.14
#1	11390.	1914000.	10200.	92.5	687.	81.2	1020.
#2	11480.	1926000.	10200.	95.6	694.	93.6	1040.

Analysis Report

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page 1

Method: 6010B Sample Name: qc220728

Operator: mw

Run Time: 07/31/03 17:45:58

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	681.	716.	146.	2370.	49.9	48.3	197.
SDev	8.	4.	2.	7.	.1	.3	.
%RSD	1.19	.503	1.11	.295	.269	.711	.202
#1	687.	718.	147.	2370.	50.0	48.6	198.
#2	675.	713.	144.	2360.	49.8	48.1	197.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	475.	301.	94.8	99.3	429.	489.	70.7
SDev	.	3.	.8	.4	4.	.	1.2
%RSD	.051	1.04	.819	.441	.882	.090	1.76
#1	475.	298.	94.2	99.0	432.	489.	69.8
#2	476.	303.	95.3	99.6	426.	489.	71.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	95.9	57.9	123.	532.	881.	2748.	644500.
SDev	1.3	.2	1.	1.	2.	18.	12350.
%RSD	1.40	.292	1.19	.225	.194	.6618	1.916
#1	94.9	58.0	122.	533.	882.	2735.	635700.
#2	96.8	57.7	124.	532.	880.	2760.	653200.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11500.	1914000.	10200.	97.8	704.	87.5	1040.
SDev	169.	5650.	22.	.6	5.	1.3	3.
%RSD	1.470	.2952	.219	.563	.724	1.49	.296
#1	11380.	1910000.	10200.	97.4	708.	86.6	1040.
#2	11620.	1918000.	10200.	98.2	701.	88.4	1030.

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page 1

Method: 6010B Sample Name: 166554-002

Operator: mw

Run Time: 07/31/03 17:49:45

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.98	-11.3	10.4	141.	.685	2.03	216.
SDev	5.77	2.0	4.4	.	.001	.18	.
%RSD	72.3	17.8	42.5	.269	.083	8.82	.121
#1	-3.90	-9.86	7.27	141.	.685	1.90	216.
#2	-12.1	-12.7	13.5	141.	.686	2.15	216.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.79	16.9	3.06	3.76	3.26	37.1	-77.8
SDev	.47	.1	5.95	1.45	3.19	.2	5.5
%RSD	12.5	.363	194.	38.6	97.8	.475	7.01
#1	4.13	17.0	7.27	4.79	5.52	37.2	-81.7
#2	3.46	16.9	-1.14	2.74	1.00	37.0	-74.0
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.6	.731	86.3	5.44	387.	666.0	783100.
SDev	6.4	.319	6.5	.97	.	9.6	780.
%RSD	31.1	43.6	7.48	17.9	.117	1.436	.0996
#1	25.1	.505	90.9	6.12	387.	659.3	782500.
#2	16.0	.956	81.7	4.75	388.	672.8	783600.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14570.	3540000.	48100.	3.53	-10.2	-12.2	44.4
SDev	28.	3944.	36.	2.95	3.3	2.4	.6
%RSD	.1911	.1114	.075	83.6	32.1	20.0	1.29
#1	14550.	3537000.	48100.	5.62	-7.87	-10.5	44.8
#2	14590.	3542000.	48200.	1.44	-12.5	-14.0	44.0

Analysis Report

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page 1

Method: 6010B Sample Name: 166554-001

Operator: mw

Run Time: 07/31/03 17:53:31

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-21.9	-10.7	11.7	141.	.700	2.63	218.
SDev	13.3	7.3	1.0	.	.217	.25	1.
%RSD	60.8	68.5	8.76	.303	31.0	9.49	.633
#1	-12.5	-15.9	11.0	142.	.547	2.80	217.
#2	-31.4	-5.53	12.5	141.	.854	2.45	219.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.37	16.4	7.33	1.12	2.23	37.6	-70.9
SDev	.03	.2	1.14	2.42	.84	1.4	8.3
%RSD	.679	1.13	15.5	216.	37.7	3.60	11.6
#1	4.39	16.3	6.52	2.83	2.83	36.6	-65.1
#2	4.35	16.5	8.13	-.588	1.64	38.5	-76.8
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.3	.653	71.0	5.57	388.	685.1	781100.
SDev	20.6	.513	8.8	.62	2.	18.1	4962.
%RSD	201.	78.6	12.4	11.2	.484	2.636	.6352
#1	24.9	.290	64.8	6.01	387.	697.9	777600.
#2	-4.30	1.02	77.3	5.13	389.	672.4	784600.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14530.	3536000.	48100.	3.19	-14.5	-16.8	43.3
SDev	71.	31958.	248.	1.23	.4	16.5	.4
%RSD	.4920	.9039	.515	38.6	3.07	98.4	.937
#1	14480.	3513000.	47900.	4.06	-14.8	-5.10	43.0
#2	14580.	3558000.	48300.	2.32	-14.1	-28.5	43.5

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Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 07/31/03 18:06:22

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	772.	766.	378.	738.	77.1	72.9	150.
SDev	18.	13.	6.	3.	.3	.4	1.
%RSD	2.28	1.64	1.63	.433	.452	.493	.374
#1	759.	757.	383.	740.	77.3	72.6	151.
#2	784.	775.	374.	736.	76.8	73.1	150.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	370.	152.	362.	340.	709.	376.	372.
SDev	2.	1.	13.	35.	40.	2.	3.
%RSD	.474	.530	3.60	10.3	5.59	.435	.743
#1	371.	153.	352.	315.	681.	377.	370.
#2	368.	152.	371.	365.	737.	375.	374.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	361.	71.7	357.	371.	74.8	764.1	1508.
SDev	2.	.6	4.	1.	.3	10.0	21.
%RSD	.540	.903	1.06	.282	.454	1.305	1.383
#1	360.	71.2	360.	371.	75.0	771.1	1523.
#2	362.	72.1	354.	370.	74.6	757.0	1494.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	748.4	1576.	74.6	347.	768.	365.	748.
SDev	9.5	34.	.8	28.	14.	2.	1.
%RSD	1.265	2.167	1.11	7.94	1.86	.609	.133
#1	755.1	1600.	75.2	328.	758.	363.	747.
#2	741.7	1552.	74.1	367.	778.	366.	749.

Analysis Report

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Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 18:37:13
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.9	14.2	-.040	.143	.125	.388	.276
SDev	6.9	.3	1.069	.042	.051	.013	.189
%RSD	53.2	2.00	2680.	29.7	40.8	3.41	68.6
#1	17.8	14.4	.716	.173	.089	.397	.409
#2	8.05	14.0	-.796	.113	.161	.379	.142
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.937	-5.83	.445	-3.73	.622	.035	3.74
SDev	.169	1.23	.754	.52	.898	.351	1.07
%RSD	18.0	21.2	170.	13.9	144.	989.	28.7
#1	.817	-4.96	.978	-3.36	1.26	.284	4.50
#2	1.06	-6.70	-.089	-4.10	-.013	-.213	2.98
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.36	1.36	-3.65	-.098	8.91	-21.84	-92.68
SDev	8.15	.03	2.15	.701	.02	5.24	2.27
%RSD	87.1	2.27	59.0	715.	.187	24.02	2.454
#1	-15.1	1.38	-2.13	.398	8.90	-25.54	-91.08
#2	-3.60	1.34	-5.17	-.594	8.92	-18.13	-94.29
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-24.12	17.74	.215	-2.34	13.7	-4.99	9.59
SDev	1.67	4.03	.029	.60	2.5	5.08	.10
%RSD	6.920	22.70	13.3	25.6	18.0	102.	1.02
#1	-22.94	20.59	.195	-1.92	15.5	-8.59	9.52
#2	-25.30	14.90	.235	-2.76	12.0	-1.40	9.66

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page 1

Method: 6010B Sample Name: 166554-002 Operator: mw
 Run Time: 07/31/03 18:47:57
 Comment: 83290,20
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.90	-15.7	-.990	17.2	.401	.083	.350
SDev	5.39	2.3	3.455	.2	.061	.204	.302
%RSD	68.3	14.9	349.	1.40	15.3	245.	86.2
#1	-4.09	-17.3	1.45	17.4	.444	-.061	.137
#2	-11.7	-14.0	-3.43	17.1	.358	.228	.564
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.189	-4.80	-11.5	2.43	-.336	.677	-.511
SDev	.610	.52	11.9	6.18	.880	1.17	11.55
%RSD	322.	10.9	104.	254.	262.	172.	2260.
#1	-.620	-5.17	-19.9	6.80	-.959	-.148	-8.68
#2	.242	-4.43	-3.01	-1.93	.286	1.50	7.65
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.75	-.738	1.99	1.31	27.8	116.8	42100.
SDev	2.58	.469	3.14	.12	.5	41.6	301.
%RSD	68.7	63.5	158.	9.14	1.87	35.60	.7142
#1	-1.93	-1.07	4.21	1.22	28.2	146.2	42310.
#2	-5.57	-.407	-.234	1.39	27.4	87.41	41880.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	801.3	109700.	594.	-2.19	-13.1	-2.67	25.8
SDev	115.9	725.	4.	.14	.2	2.13	6.4
%RSD	14.46	.6604	.676	6.51	1.79	79.8	24.8
#1	883.2	110200.	597.	-2.09	-12.9	-4.18	30.3
#2	719.4	109200.	591.	-2.29	-13.3	-1.16	21.3

Analysis Report

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Method: 6010B Sample Name: qc220938

Operator: mw

Run Time: 07/31/03 18:52:28

Comment: 83290,03ss177,0.1/10,03ss178,0.1/10

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	687.	641.	144.	2330.	53.0	51.6	212.
SDev	1.	14.	3.	34.	.2	.6	.
%RSD	.076	2.21	2.25	1.46	.451	1.12	.221
#1	687.	651.	142.	2310.	52.8	52.0	212.
#2	688.	631.	147.	2350.	53.1	51.2	213.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	513.	299.	83.5	116.	454.	528.	81.6
SDev	2.	5.	12.0	3.	5.	.	9.5
%RSD	.388	1.76	14.3	2.45	1.19	.054	11.7
#1	511.	296.	91.9	114.	450.	528.	88.4
#2	514.	303.	75.0	118.	458.	528.	74.9
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	140.	58.3	122.	561.	900.	2573.	689000.
SDev	18.	.5	5.	3.	4.	65.	1115.
%RSD	12.6	.862	4.22	.618	.461	2.524	.1618
#1	128.	58.0	126.	559.	897.	2527.	688200.
#2	152.	58.7	119.	564.	903.	2619.	689800.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12270.	1947000.	10500.	105.	656.	121.	1080.
SDev	46.	2479.	49.	2.	9.	9.	8.
%RSD	.3775	.1273	.467	1.99	1.42	7.09	.772
#1	12240.	1946000.	10500.	106.	663.	114.	1070.
#2	12300.	1949000.	10600.	103.	650.	127.	1090.

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Method: 6010B Sample Name: 03ws1089 Operator: mw
 Run Time: 07/31/03 18:56:04
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	516.	486.	600.	534.	547.	1110.	543.
SDev	21.	3.	11.	1.	.	.	1.
%RSD	4.06	.672	1.76	.162	.007	.003	.259
#1	501.	489.	593.	534.	547.	1110.	542.
#2	531.	484.	608.	533.	547.	1110.	544.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	537.	560.	1120.	945.	528.	1200.	582.
SDev	1.	3.	6.	44.	23.	1.	6.
%RSD	.238	.581	.569	4.66	4.35	.110	1.03
#1	536.	557.	1110.	914.	512.	1200.	578.
#2	538.	562.	1120.	976.	544.	1200.	587.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	568.	963.	536.	549.	1110.	494800.	521800.
SDev	18.	74.	3.	.	2.	297.	141.
%RSD	3.21	7.69	.529	.090	.185	.0599	.0271
#1	555.	1020.	534.	550.	1110.	495000.	521700.
#2	581.	911.	538.	549.	1110.	494600.	521900.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	213000.	583000.	551.	1000.	496.	573.	2220.
SDev	202.	1345.	5.	31.	5.	14.	4.
%RSD	.0948	.2308	.871	3.14	.967	2.47	.194
#1	212900.	583900.	554.	980.	493.	563.	2210.
#2	213200.	582000.	547.	1020.	500.	583.	2220.

Method: 6010B Sample Name: 03ws1151 Operator: mw
 Run Time: 07/31/03 19:08:15
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	835.	802.	373.	725.	74.7	72.5	148.
SDev	28.	5.	13.	4.	.3	.8	2.
%RSD	3.37	.666	3.37	.539	.419	1.17	1.08

#1	815.	798.	365.	722.	74.4	71.9	147.
#2	855.	805.	382.	728.	74.9	73.1	149.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	363.	149.	361.	339.	719.	367.	375.
SDev	4.	2.	42.	88.	71.	4.	13.
%RSD	1.15	1.52	11.5	25.9	9.92	.981	3.54

#1	360.	147.	332.	277.	668.	364.	366.
#2	366.	151.	391.	402.	769.	370.	384.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	72.7	343.	364.	74.3	777.1	1430.
SDev	20.	2.3	4.	4.	.5	19.3	5.
%RSD	5.35	3.15	1.28	1.01	.711	2.483	.3720

#1	355.	71.1	340.	362.	73.9	763.4	1427.
#2	383.	74.3	346.	367.	74.7	790.7	1434.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	717.1	1492.	72.4	347.	813.	371.	736.
SDev	.0	10.	.4	73.	13.	18.	19.
%RSD	.0024	.6761	.586	20.9	1.59	4.74	2.61

#1	717.0	1484.	72.1	295.	804.	358.	723.
#2	717.1	1499.	72.7	398.	822.	383.	750.

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 19:15:22
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	71.8	31.2	-3.00	-.067	.965	-.046	-1.14
SDev	41.5	13.4	3.36	.275	.355	.332	1.14
%RSD	57.8	43.0	112.	413.	36.8	714.	100.
#1	101.	40.8	-.629	-.261	1.22	-.281	-1.95
#2	42.5	21.7	-5.38	.128	.714	.188	-.330
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.21	-6.53	-17.1	6.28	3.50	-1.57	-1.74
SDev	1.33	.09	12.5	10.3	1.14	.96	12.05
%RSD	110.	1.40	73.1	164.	32.7	60.9	691.
#1	-2.15	-6.59	-25.9	13.5	2.69	-2.25	-10.3
#2	-.268	-6.46	-8.24	-.984	4.31	-.894	6.78
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.61	-2.81	-8.00	-1.79	6.26	77.77	-93.70
SDev	1.78	2.91	1.80	1.30	.18	37.82	9.77
%RSD	49.4	103.	22.5	72.5	2.84	48.63	10.43
#1	-2.35	-4.87	-6.73	-2.71	6.39	51.03	-86.79
#2	-4.87	-.758	-9.28	-.873	6.14	104.5	-100.6
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.16	28.76	.354	-1.50	44.8	-2.99	7.56
SDev	15.31	1.06	.084	2.70	22.8	2.83	.70
%RSD	150.7	3.699	23.8	181.	50.9	94.7	9.24
#1	20.99	28.00	.414	.414	60.9	-4.99	8.06
#2	-.6641	29.51	.295	-3.40	28.6	-.986	7.07

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-014

Operator: mw

Run Time: 07/31/03 19:23:13

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-17.2	-.399	-.894	2.56	-.058	.071	4.53
SDev	6.7	9.628	.020	.88	.194	.309	1.87
%RSD	39.3	2410.	2.28	34.4	332.	436.	41.2

#1	-21.9	6.41	-.909	3.18	-.196	.289	5.85
#2	-12.4	-7.21	-.880	1.94	.079	-.148	3.21

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.483	.363	.915	1.75	1.36	3.52	-4.38
SDev	.477	.144	5.55	3.87	1.21	.65	3.34
%RSD	98.7	39.7	606.	220.	88.8	18.5	76.1

#1	-.146	.465	4.84	-.981	2.22	3.98	-2.02
#2	-.820	.262	-3.01	4.49	.508	3.06	-6.74

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.44	.270	-11.8	2.60	10.4	461.6	425.5
SDev	.49	1.28	2.5	2.08	.2	207.2	80.9
%RSD	33.9	473.	20.9	79.7	2.16	44.88	19.02

#1	-1.10	1.18	-13.5	4.07	10.2	608.1	482.8
#2	-1.79	-.635	-10.1	1.14	10.5	315.1	368.3

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	754.9	160.5	11.7	1.47	-5.99	-2.42	32.4
SDev	292.8	30.8	4.3	.73	4.17	1.44	15.0
%RSD	38.79	19.19	37.1	49.5	69.7	59.4	46.3

#1	961.9	182.3	14.7	.959	-3.04	-1.41	43.0
#2	547.8	138.7	8.60	1.99	-8.94	-3.44	21.8

Analysis Report

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page 1

Method: 6010B Sample Name: 166560-022 Operator: mw
 Run Time: 07/31/03 19:27:30
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-23.1	-13.4	.983	.398	-.009	.341	7.98
SDev	.4	3.4	3.68	.206	.074	.225	11.2
%RSD	1.87	25.2	374.	51.7	781.	66.0	140.

#1	-23.4	-11.0	3.58	.544	-.062	.500	15.9
#2	-22.8	-15.8	-1.62	.253	.043	.182	.096

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.377	1.75	.581	-.085	.337	.947	-2.11
SDev	.089	.16	3.86	.441	2.58	.412	1.03
%RSD	23.5	9.19	665.	519.	765.	43.5	49.0

#1	-.315	1.87	3.31	.227	2.16	1.24	-2.84
#2	-.440	1.64	-2.15	-.397	-1.49	.656	-1.38

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.82	-.264	-7.12	.422	11.7	43.92	109.2
SDev	2.83	.127	3.92	.400	.1	21.67	1.2
%RSD	73.9	48.0	55.1	94.8	.775	49.34	1.142

#1	-5.82	-.174	-9.89	.704	11.8	59.24	110.1
#2	-1.82	-.353	-4.35	.139	11.6	28.59	108.3

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	171.8	-5.168	1.43	.137	-16.6	-3.25	1.26
SDev	128.9	.507	.67	1.58	2.1	2.23	.09
%RSD	75.07	9.808	46.5	1150.	12.6	68.6	7.02

#1	262.9	-4.809	1.90	1.26	-15.1	-4.83	1.32
#2	80.59	-5.526	.963	-.981	-18.1	-1.68	1.20

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Method: 6010B Sample Name: 166561-023

Operator: mw

Run Time: 07/31/03 19:31:46

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-17.1	-15.0	-.119	.319	-.067	-.030	8.45
SDev	2.1	2.7	3.344	.168	.048	.036	11.4
%RSD	12.4	18.1	2810.	52.8	71.5	119.	135.

#1	-15.6	-13.1	-2.48	.438	-.101	-.055	16.5
#2	-18.6	-16.9	2.25	.200	-.033	-.005	.382

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.01	17.8	1.73	2.26	-1.16	.499	-7.25
SDev	.57	.5	1.57	1.55	1.90	.160	8.07
%RSD	56.4	3.04	90.9	68.4	164.	32.1	111.

#1	-.606	17.5	2.84	3.36	.185	.612	-13.0
#2	-1.41	18.2	.617	1.17	-2.51	.386	-1.55

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.64	-.610	-4.12	-.244	12.5	21.80	74.40
SDev	10.11	.310	3.25	.051	.0	14.49	7.67
%RSD	278.	50.8	79.0	20.7	.291	66.47	10.31

#1	-10.8	-.391	-6.42	-.280	12.6	32.05	79.82
#2	3.51	-.829	-1.82	-.208	12.5	11.56	68.97

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	151.0	-6.139	1.28	2.09	-15.7	-4.85	.648
SDev	155.4	1.765	.92	1.56	2.5	9.43	.512
%RSD	102.9	28.75	72.3	74.6	16.0	195.	79.1

#1	260.9	-7.388	1.93	3.19	-13.9	-11.5	.286
#2	41.07	-4.891	.623	.985	-17.5	1.82	1.01

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Method: 6010B Sample Name: 166561-028 Operator: mw
 Run Time: 07/31/03 19:36:03
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-25.8	-11.6	-1.63	7.40	.108	.284	8.35
SDev	1.7	1.9	.01	.12	.070	.207	11.8
%RSD	6.43	16.6	.817	1.66	65.2	72.9	141.
#1	-27.0	-10.2	-1.64	7.48	.058	.430	16.7
#2	-24.6	-13.0	-1.62	7.31	.158	.137	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.525	192.	3.10	.444	-.554	.828	2.92
SDev	.120	3.	5.33	3.39	1.383	.370	8.27
%RSD	22.9	1.49	172.	764.	250.	44.7	283.
#1	-.610	190.	6.87	2.84	.424	1.09	8.77
#2	-.440	194.	-.672	-1.96	-1.53	.566	-2.93
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.98	-.704	-5.73	.432	25.2	37.57	4926.
SDev	2.12	.848	1.07	.341	.4	19.50	95.
%RSD	107.	120.	18.6	79.0	1.63	51.92	1.928
#1	-3.47	-.104	-6.49	.673	24.9	51.36	4858.
#2	-.479	-1.30	-4.98	.191	25.5	23.78	4993.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	155.4	685.6	1.28	1.33	-16.3	-.344	.580
SDev	151.7	14.9	.81	4.04	.7	1.344	.106
%RSD	97.62	2.175	63.5	304.	4.48	391.	18.3
#1	262.6	675.1	1.86	4.18	-15.8	.607	.505
#2	48.13	696.2	.706	-1.53	-16.8	-1.29	.655

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page 1

Method: 6010B Sample Name: 166604-001

Operator: mw

Run Time: 07/31/03 19:40:19

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.81	18.2	13.7	15.0	-.082	10.8	105.
SDev	6.71	3.8	6.5	.1	.079	.0	8.
%RSD	116.	20.9	47.5	.774	96.4	.006	7.86
#1	1.06	20.9	9.10	14.9	-.138	10.8	111.
#2	10.6	15.5	18.3	15.1	-.026	10.8	99.6
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	29.6	72.0	1.87	4.24	54.3	850.	-.038
SDev	1.0	.3	1.33	.46	3.9	15.	3.873
%RSD	3.34	.395	71.0	10.8	7.25	1.82	10100.
#1	28.9	71.8	2.82	4.57	51.5	839.	2.70
#2	30.3	72.2	.934	3.92	57.0	861.	-2.78
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.596	.612	-7.67	27.8	555.	641.7	147100.
SDev	8.250	.787	2.07	1.1	11.	8.8	3282.
%RSD	1380.	128.	27.0	4.01	1.93	1.376	2.231
#1	5.24	.056	-9.13	27.0	548.	647.9	144800.
#2	-6.43	1.17	-6.21	28.6	563.	635.5	149400.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4725.	29790.	450.	3.45	14.1	-.410	23.5
SDev	22.	662.	9.	.75	.3	6.791	.2
%RSD	.4691	2.221	1.90	21.7	2.19	1660.	.999
#1	4741.	29330.	444.	3.98	14.3	4.39	23.3
#2	4710.	30260.	456.	2.92	13.9	-5.21	23.7

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page 1

Method: 6010B Sample Name: 166552-001

Operator: mw

Run Time: 07/31/03 19:44:35

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-22.1	-15.4	5.31	430.	5.52	4.32	21.0
SDev	4.9	2.1	2.88	1.	.08	.47	12.5
%RSD	22.1	13.6	54.3	.179	1.39	10.9	59.4
#1	-25.6	-13.9	7.35	430.	5.57	4.65	29.9
#2	-18.7	-16.9	3.27	429.	5.46	3.99	12.2
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	174.	141.	18.2	10.5	.172	308.	-9.51
SDev	1.	.	4.9	.1	.474	1.	7.04
%RSD	.455	.023	26.8	.652	276.	.219	74.0
#1	174.	141.	21.6	10.5	.507	307.	-4.53
#2	175.	141.	14.7	10.4	-.163	308.	-14.5
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.027	-2.77	.656	223.	97.5	13990.	246500.
SDev	9.05	1.32	.787	.	.4	94.	2499.
%RSD	33600.	47.8	120.	.019	.456	.6730	1.014
#1	6.43	-1.83	.100	223.	97.2	13920.	244700.
#2	-6.38	-3.70	1.21	223.	97.8	14060.	248300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	43120.	104300.	4940.	13.0	-17.6	-3.15	246.
SDev	338.	1019.	49.	1.7	.2	8.38	2.
%RSD	.7829	.9773	.996	12.8	1.34	266.	.796
#1	42880.	103600.	4900.	14.2	-17.8	2.78	245.
#2	43350.	105000.	4970.	11.8	-17.5	-9.08	248.

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Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 07/31/03 19:51:26

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	414.	427.	243.	487.	48.4	46.8	105.
SDev	67.	11.	11.	6.	.8	1.0	10.
%RSD	16.3	2.65	4.37	1.24	1.63	2.17	9.50
#1	366.	419.	236.	483.	47.8	46.1	112.
#2	461.	435.	251.	491.	49.0	47.5	98.1
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	237.	99.5	246.	218.	459.	242.	243.
SDev	5.	1.8	15.	63.	58.	3.	3.
%RSD	2.18	1.78	6.14	28.8	12.7	1.38	1.11
#1	233.	98.2	235.	174.	418.	239.	242.
#2	240.	101.	256.	263.	500.	244.	245.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	229.	47.9	219.	239.	47.0	530.8	947.5
SDev	40.	2.6	4.	6.	.8	5.6	7.3
%RSD	17.5	5.36	1.73	2.31	1.76	1.062	.7712
#1	201.	46.1	217.	235.	46.4	526.8	942.4
#2	257.	49.8	222.	243.	47.6	534.8	952.7
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	631.2	951.7	48.8	227.	422.	234.	489.
SDev	118.8	23.5	.1	47.	30.	28.	13.
%RSD	18.83	2.471	.163	20.7	7.09	11.8	2.75
#1	715.3	935.1	48.8	194.	401.	214.	479.
#2	547.2	968.3	48.9	261.	444.	253.	498.

Analysis Report

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page 1

Method: 6010B Sample Name: rinse
 Run Time: 07/31/03 19:58:17
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-10.4	-6.37	-5.01	.065	.393	.009	7.39
SDev	4.8	4.92	1.96	.124	.038	.134	8.98
%RSD	46.0	77.2	39.2	190.	9.68	1430.	121.

#1	-7.01	-2.89	-3.62	.153	.420	-.085	13.7
#2	-13.8	-9.85	-6.40	-.023	.366	.104	1.04

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.419	-.670	-.582	1.12	2.21	.598	7.53
SDev	.210	.159	.508	2.29	1.58	.756	13.0
%RSD	50.3	23.7	87.3	204.	71.7	126.	173.

#1	-.270	-.782	-.222	2.73	3.32	1.13	16.7
#2	-.567	-.557	-.941	-.498	1.09	.063	-1.69

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.50	-.621	-3.08	-.426	-1.33	19.24	1.224
SDev	3.26	.643	5.40	.039	.21	.24	9.035
%RSD	217.	103.	176.	9.12	16.0	1.240	738.0

#1	.804	-.167	.743	-.453	-1.18	19.41	7.613
#2	-3.81	-1.08	-6.89	-.398	-1.48	19.08	-5.165

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	106.1	-15.84	.605	.551	-7.71	1.51	-1.68
SDev	126.6	7.57	.733	1.69	4.87	6.52	.04
%RSD	119.3	47.79	121.	307.	63.2	433.	2.24

#1	195.6	-10.49	1.12	1.75	-4.27	6.12	-1.66
#2	16.62	-21.19	.086	-.646	-11.2	-3.10	-1.71

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 20:02:34
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-14.6	-8.32	.818	.207	.445	.006	7.67
SDev	3.7	6.35	.109	.145	.015	.028	9.63
%RSD	25.0	76.3	13.3	70.0	3.32	444.	126.
#1	-12.0	-3.83	.741	.309	.455	-.013	14.5
#2	-17.2	-12.8	.895	.104	.434	.026	.862
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.569	-.554	-3.78	1.69	-.570	.493	3.01
SDev	.060	.023	.27	.83	1.419	.446	7.52
%RSD	10.6	4.11	7.07	49.0	249.	90.5	250.
#1	-.612	-.570	-3.97	2.27	.433	.808	-2.31
#2	-.527	-.538	-3.59	1.10	-1.57	.178	8.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.87	-.917	6.23	-.488	-.618	42.47	-5.083
SDev	.30	.050	.60	.224	.400	9.33	6.343
%RSD	5.16	5.47	9.61	45.9	64.7	21.97	124.8
#1	-6.08	-.953	5.81	-.330	-.335	49.07	-.5979
#2	-5.65	-.882	6.66	-.647	-.901	35.87	-9.568
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	104.5	-13.89	.591	-.134	-10.4	-2.91	-1.53
SDev	135.2	6.03	.946	.462	5.5	2.71	.30
%RSD	129.4	43.41	160.	345.	52.3	93.1	19.4
#1	200.1	-9.627	1.26	.193	-6.56	-4.82	-1.32
#2	8.901	-18.15	-.078	-.461	-14.3	-.993	-1.74

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Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 07/31/03 20:43:40

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	401.	511.	553.	510.	476.	957.	481.
SDev	155.	26.	3.	2.	6.	7.	5.
%RSD	38.7	5.01	.503	.387	1.18	.721	1.08
#1	292.	529.	555.	509.	472.	952.	485.
#2	511.	493.	551.	512.	480.	962.	478.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	525.	984.	815.	478.	1010.	585.
SDev	5.	6.	15.	208.	44.	11.	37.
%RSD	1.15	1.22	1.50	25.6	9.17	1.11	6.37
#1	470.	520.	994.	668.	447.	1010.	611.
#2	478.	529.	973.	962.	509.	1020.	558.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	482.	1070.	465.	498.	1000.	535100.	432800.
SDev	110.	17.	10.	1.	16.	9584.	6304.
%RSD	22.8	1.57	2.12	.152	1.55	1.791	1.456
#1	404.	1060.	458.	498.	991.	528300.	428400.
#2	560.	1090.	472.	499.	1010.	541900.	437300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	180200.	503200.	479.	871.	475.	516.	2040.
SDev	2948.	7532.	7.	134.	35.	61.	36.
%RSD	1.635	1.497	1.36	15.4	7.31	11.8	1.78
#1	178200.	497900.	475.	776.	450.	473.	2010.
#2	182300.	508500.	484.	966.	499.	559.	2070.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 07/31/03 20:52:15

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	725.	742.	374.	733.	72.8	72.0	153.
SDev	91.	20.	12.	7.	1.1	1.4	9.
%RSD	12.6	2.65	3.23	.951	1.45	1.94	5.89
#1	660.	728.	366.	728.	72.1	71.0	159.
#2	789.	755.	383.	738.	73.5	73.0	146.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	357.	149.	368.	334.	702.	362.	386.
SDev	6.	2.	20.	86.	83.	6.	13.
%RSD	1.61	1.43	5.53	25.6	11.8	1.54	3.27
#1	353.	147.	354.	274.	644.	358.	377.
#2	361.	150.	382.	395.	761.	366.	395.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	357.	73.4	336.	357.	70.9	847.8	1392.
SDev	55.	3.3	12.	6.	1.0	12.3	10.
%RSD	15.4	4.49	3.49	1.79	1.36	1.451	.7196
#1	318.	71.1	328.	353.	70.2	856.5	1385.
#2	396.	75.7	344.	362.	71.6	839.1	1399.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	821.6	1461.	70.8	346.	736.	367.	728.
SDev	125.2	13.	.1	64.	44.	41.	18.
%RSD	15.24	.8620	.171	18.5	5.91	11.1	2.46
#1	910.2	1452.	70.8	300.	705.	338.	715.
#2	733.1	1470.	70.9	391.	767.	396.	741.

Analysis Report

07/31/03 09:03:47 PM

page 1

Method: 6010B Sample Name: rinse
 Run Time: 07/31/03 20:59:58
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.13	-.189	-3.98	.161	.863	-.075	8.25
SDev	10.68	11.57	2.43	.231	.020	.046	10.4
%RSD	131.	6110.	61.1	144.	2.32	61.0	127.
#1	-.572	8.00	-2.26	.324	.878	-.043	15.6
#2	-15.7	-8.37	-5.70	-.003	.849	-.107	.864
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.167	-.761	-.538	2.09	2.60	.421	5.35
SDev	.330	.401	.384	.68	.92	.233	1.81
%RSD	198.	52.7	71.4	32.4	35.3	55.3	33.8
#1	-.400	-1.05	-.810	1.61	3.25	.586	6.63
#2	.066	-.478	-.266	2.57	1.95	.257	4.07
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.91	-.376	-.889	-.359	-1.03	59.71	-8.158
SDev	4.19	.540	9.775	.274	.57	17.22	10.784
%RSD	53.0	143.	1100.	76.3	55.7	28.84	132.2
#1	-4.95	.005	-7.80	-.165	-.622	71.89	-.5323
#2	-10.9	-.758	6.02	-.552	-1.43	47.53	-15.78
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	124.7	-3.259	.696	1.22	-2.83	-3.49	-1.26
SDev	150.9	5.611	1.04	.58	11.28	3.40	.19
%RSD	121.1	172.2	150.	47.7	398.	97.3	14.7
#1	231.4	.7092	1.43	.806	5.14	-1.09	-1.13
#2	17.95	-7.226	-.041	1.63	-10.8	-5.89	-1.39

Analysis Report

07/31/03 09:09:46 PM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 07/31/03 21:05:57
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-18.1	-12.5	-5.04	.071	.942	-.220	7.47
SDev	2.5	3.5	3.10	.177	.024	.460	10.7
%RSD	13.7	28.1	61.5	250.	2.53	209.	143.
#1	-16.3	-10.0	-7.24	.196	.925	-.545	15.0
#2	-19.9	-15.0	-2.85	-.054	.958	.106	-.085
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.655	-1.22	-3.83	.280	1.20	.417	-3.05
SDev	.299	.26	.45	.902	.33	.124	1.57
%RSD	45.6	21.2	11.7	322.	27.2	29.8	51.6
#1	-.444	-1.04	-4.15	-.358	1.43	.329	-1.94
#2	-.866	-1.40	-3.52	.918	.968	.505	-4.16
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.35	-.891	-2.38	-.193	-.967	62.43	-21.70
SDev	4.84	.138	.43	.446	.538	22.82	6.54
%RSD	206.	15.5	18.2	231.	55.6	36.55	30.15
#1	1.07	-.793	-2.07	-.508	-.587	78.57	-17.08
#2	-5.77	-.988	-2.69	.122	-1.35	46.30	-26.33
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	116.9	-10.21	.505	-1.09	-14.4	-2.58	-1.78
SDev	150.0	4.36	1.02	.75	3.2	3.75	.43
%RSD	128.3	42.74	203.	68.9	22.1	145.	24.3
#1	223.0	-7.124	1.23	-1.62	-12.1	.068	-1.47
#2	10.81	-13.29	-.219	-.560	-16.6	-5.23	-2.08

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 01-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73307079

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
001	tr212164	CS				01-AUG-2003	05:59	1.0				1		
002	tr212165	ICV				01-AUG-2003	06:04	1.0				2		
003	tr212166	ICB				01-AUG-2003	06:21	1.0						
004	tr212167	CRI				01-AUG-2003	06:25	1.0				3		
005	tr212168	ICSAB				01-AUG-2003	06:32	1.0				4		4:MG=520300
006	tr212169	BLANK	QC220939	83342	Soil	01-AUG-2003	06:43	1.0						
007	tr212170	BS	QC220940	83342	Soil	01-AUG-2003	06:47	1.0						
008	tr212171	BSD	QC220941	83342	Soil	01-AUG-2003	06:51	1.0						
009	tr212172	MSS	166599-013	83342	Soil	01-AUG-2003	06:56	1.0						1:FE=196400
010	tr212173	MSS	166599-013	83342	Soil	01-AUG-2003	07:01	1.0						1:FE=195700
011	tr212174	SER	QC220944	83342	Soil	01-AUG-2003	07:06	5.0						
012	tr212175	SER	QC220944	83342	Soil	01-AUG-2003	07:10	5.0						
013	tr212176	MSS	166599-013	83342	Soil	01-AUG-2003	07:14	5.0						
014	tr212177	CCV	03w1150			01-AUG-2003	07:19	1.0				5		
015	tr212178	CCB				01-AUG-2003	07:28	1.0						
016	tr212179	SER	QC220944	83342	Soil	01-AUG-2003	07:32	25.0						2:FE=209400
017	tr212180	MS	QC220942	83342	Soil	01-AUG-2003	07:36	1.0						2:FE=231300
018	tr212181	MSD	QC220943	83342	Soil	01-AUG-2003	07:40	1.0						2:FE=207000
019	tr212182	PDS	QC220945	83342	Soil	01-AUG-2003	07:44	1.0				6	7	
020	tr212183	SAMPLE	166599-024	83342	Soil	01-AUG-2003	07:49	1.0						1:FE=137400
021	tr212184	SAMPLE	166599-025	83342	Soil	01-AUG-2003	07:53	1.0						2:FE=188900
022	tr212185	SAMPLE	166599-026	83342	Soil	01-AUG-2003	07:57	1.0						2:FE=172400
023	tr212186	SAMPLE	166599-027	83342	Soil	01-AUG-2003	08:01	1.0						2:FE=167200
024	tr212187	SAMPLE	166599-024	83342	Soil	01-AUG-2003	08:05	1.0						1:FE=139000
025	tr212188	SAMPLE	166599-027	83342	Soil	01-AUG-2003	08:09	1.0						2:FE=166000
026	tr212189	CCV				01-AUG-2003	08:26	1.0				8		
027	tr212190	CCB				01-AUG-2003	08:39	1.0						
028	tr212191	SAMPLE	166599-024	83342	Soil	01-AUG-2003	08:43	10.0						47.84689
029	tr212192	SAMPLE	166599-025	83342	Soil	01-AUG-2003	08:47	10.0						44.24779
030	tr212193	SAMPLE	166599-026	83342	Soil	01-AUG-2003	08:51	10.0						39.21569 1
031	tr212194	SAMPLE	166599-027	83342	Soil	01-AUG-2003	08:55	10.0						45.66210
032	tr212195	SAMPLE	166643-001	83342	Miscel	01-AUG-2003	09:00	1.0						46.72897

Stdts used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS74 7=03SS75 8=03WS1151

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Date:

Analyst:

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SEQUENCE SUMMARY

Curtis & Tompkins-Laboratories

Begun: 01-AUG-2003

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003	09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003	09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003	09:12	1.0	48.30918					3:FE=262700
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003	09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003	09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003	09:33	1.0	1.0			5		
039	tr212202	CCB				01-AUG-2003	09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003	09:49	1.0	50.0					
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003	09:53	1.0	45.04505					2:FE=250500
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003	09:57	1.0	49.50495					3:FE=234100
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003	10:01	1.0	43.29004					2:FE=283000
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003	10:05	1.0	46.08295					2:FE=243700
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003	10:09	1.0	46.29630					2:FE=248000
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003	10:13	1.0	47.84689					4:FE=439200
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003	10:17	1.0	40.0					4:CA=430200
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003	10:20	1.0	49.26108					2:FE=409400
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003	10:25	20.0	1.0		1			
050	tr212213	CCV				01-AUG-2003	10:35	1.0	1.0			5		
051	tr212214	CCB				01-AUG-2003	10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003	10:43	50.0	1.0					
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003	10:46	100.0	1.0		1			
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003	10:50	1.0	1.0		1			
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003	10:54	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003	10:57	1.0	1.0					
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003	11:00	1.0	1.0		1			
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003	11:04	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003	11:07	1.0	1.0					
060	tr212223	ICSAB				01-AUG-2003	11:18	1.0	1.0			4		4:MG=545500
061	tr212224	CCV				01-AUG-2003	11:27	1.0	1.0			8		
062	tr212225	CCB				01-AUG-2003	11:39	1.0	1.0					

Stdts used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: ANALYST Date: 8/1/03

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-014	Cident : LCPSB03[0.3]RB[1]
Seqnum : 73307079054	Matrix : Water	Acctnum : TREADWELL (SES)
Filename : tr212217	Batchnum : 83290	Injected : 01-AUG-2003 10:50
IDF : 1.0	PDF : 1.0	Units : ug/L

Analyte	Result	RL	B=tr212084	Flags
Antimony	ND	60		u
Barium	ND	10		
Copper	ND	10		
Lead.....	6.5	3.0		ab*
Zinc	ND	20	2.8	

a-rsd out b-noncompliant u=use

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Method: 6010B Standard: blank
Run Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.001	.001	-.025	.001	.000
SDev	.001	.000	.000	.000	.000	.001	.000
%RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.007	.001	-.000	.000	-.000	-.002
SDev	.000	.000	.001	.001	.000	.000	.000
%RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0325	-.0133
SDev	.001	.000	.000	.000	.000	.0000	.0000
%RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0008	.0001	.000	.071			
SDev	.0001	.0001	.000	.000			
%RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

Method: 6010B Standard: cst hi
Run Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6625.80	4.25512	08/01/03 05:53:15
Sb206A	206.832	Multiple	Standards	10861.1	-4.95256	08/01/03 05:53:15
As1890	189.042	Multiple	Standards	12606.0	12.0996	08/01/03 05:53:15
Ba4934	493.409	Multiple	Standards	180.343	-.106017	08/01/03 05:53:15
Be3130	313.042	Multiple	Standards	145.252	3.58223	08/01/03 05:53:15
Cd2265	226.502	Multiple	Standards	424.876	-.420509	08/01/03 05:53:15
Cr2677	267.716	Multiple	Standards	4035.62	-1.45267	08/01/03 05:53:15
Co2286	228.616	Multiple	Standards	3592.62	.689783	08/01/03 05:53:15
Cu3247	324.754	Multiple	Standards	1698.73	11.3432	08/01/03 05:53:15
Pb2203	220.351	Multiple	Standards	3210.65	-2.02149	08/01/03 05:53:15
Pb220A	220.352	Multiple	Standards	3068.61	.349390	08/01/03 05:53:15
Mo2020	202.030	Multiple	Standards	3588.89	-.796321	08/01/03 05:53:15
Ni2316	231.604	Multiple	Standards	1287.52	.069626	08/01/03 05:53:15
Se1960	196.021	Multiple	Standards	12134.7	20.6758	08/01/03 05:53:15
Se196A	196.022	Multiple	Standards	9986.62	-9.52698	08/01/03 05:53:15
Ag3280	328.068	Multiple	Standards	1476.84	-.513876	08/01/03 05:53:15
Tl1908	190.864	Multiple	Standards	18521.3	8.55638	08/01/03 05:53:15
V_2924	292.402	Multiple	Standards	2605.16	-.984608	08/01/03 05:53:15
Zn2138	213.856	Multiple	Standards	3715.97	-22.0249	08/01/03 05:53:15
Al3082	308.215	Multiple	Standards	43764.1	-1421.94	08/01/03 05:53:15
Ca3179	317.933	Multiple	Standards	33923.4	451.181	08/01/03 05:53:15
Fe2714	271.441	Multiple	Standards	41884.3	34.6737	08/01/03 05:53:15
Mg2790	279.079	Multiple	Standards	52929.5	-7.62003	08/01/03 05:53:15
Mn2576	257.610	Multiple	Standards	517.941	-.046598	08/01/03 05:53:15
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Ti3349	334.941	Multiple	Standards	545.203	-38.5847	08/01/03 05:53:15

Analysis Report

08/01/03 06:02:51 AM

page 1

Method: 6010B Sample Name: 03ws1109

Operator: pps

Run Time: 08/01/03 05:59:41

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1000.	1010.	506.	1000.	100.	101.	201.
SDev	54.	57.	9.	3.	.	.	1.
%RSD	5.37	5.63	1.88	.280	.182	.324	.536
#1	967.	965.	512.	999.	100.	101.	201.
#2	1040.	1050.	499.	1000.	100.	101.	202.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	201.	504.	503.	1000.	501.	513.
SDev	.	.	1.	1.	3.7	2.	4.
%RSD	.010	.118	.228	.183	.375	.381	.726
#1	504.	201.	503.	503.	997.	500.	515.
#2	504.	201.	505.	504.	1000.	503.	510.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.	100.	502.	501.	100.	994.5	2001.
SDev	3.	.	1.	2.	.	8.2	5.
%RSD	.551	.146	.106	.303	.092	.8229	.2717
#1	501.	100.	501.	499.	100.	988.7	1997.
#2	505.	100.	502.	502.	100.	1000.	2004.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1017.	2009.	100.	503.	1010.	506.	1000.
SDev	4.	.	.	1.	56.	1.	4.
%RSD	.4219	.0046	.143	.198	5.54	.120	.379
#1	1020.	2009.	100.	503.	966.	506.	999.
#2	1014.	2009.	100.	504.	1040.	506.	1000.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1149
 Run Time: 08/01/03 06:04:16
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	561.	538.	261.	493.	51.2	49.1	100.
SDev	8.	2.	2.	1.	.0	.6	.
%RSD	1.36	.317	.735	.128	.065	1.21	.335
#1	566.	539.	262.	492.	51.2	49.5	101.
#2	555.	537.	259.	493.	51.2	48.7	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249.	102.	247.	248.	487.	252.	246.
SDev	1.	.	5.	9.	15.	.	4.
%RSD	.474	.227	1.89	3.50	3.11	.180	1.52
#1	248.	102.	244.	242.	476.	251.	249.
#2	250.	102.	251.	254.	498.	252.	243.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	49.1	242.	247.	49.6	486.1	984.1
SDev	14.	1.2	3.	.	.1	10.8	3.2
%RSD	5.78	2.37	1.06	.019	.264	2.228	.3295
#1	259.	48.3	244.	247.	49.5	478.4	986.4
#2	238.	49.9	240.	247.	49.7	493.7	981.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.6	1012.	49.3	248.	546.	248.	508.
SDev	6.0	.	.1	7.	4.	11.	2.
%RSD	1.223	.0396	.109	2.96	.673	4.37	.325
#1	489.3	1012.	49.2	243.	548.	255.	507.
#2	497.9	1012.	49.3	253.	543.	240.	509.

Analysis Report

08/01/03 06:24:22 AM

page 1

Method: 6010B Sample Name: icb
 Run Time: 08/01/03 06:21:18
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.13	4.59	.598	-.033	.942	-.046	-.317
SDev	.35	2.69	1.55	.147	.016	.029	.489
%RSD	11.3	58.6	260.	442.	1.72	63.6	154.
#1	3.38	2.69	-.500	-.137	.930	-.067	-.662
#2	2.88	6.50	1.70	.071	.953	-.025	.029
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.520	-.385	-1.59	.318	1.73	-.300	6.04
SDev	.716	.271	2.58	1.92	1.09	.459	.31
%RSD	138.	70.5	163.	602.	62.9	153.	5.08
#1	-1.03	-.576	-3.41	1.67	2.50	-.625	6.26
#2	-.014	-.193	.239	-1.04	.961	.024	5.83
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.52	-.234	4.39	-.634	.428	33.54	-23.94
SDev	5.44	1.087	6.85	.137	.078	.34	2.09
%RSD	358.	464.	156.	21.6	18.2	1.024	8.740
#1	-5.37	-1.00	9.24	-.730	.373	33.30	-22.46
#2	2.33	.534	-.454	-.537	.483	33.78	-25.42
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.638	-1.788	.159	-.317	4.11	1.00	.903
SDev	3.230	.914	.058	.417	1.68	3.53	.082
%RSD	197.2	51.12	36.5	132.	40.9	352.	9.11
#1	-.6461	-2.435	.118	-.022	2.92	-1.49	.845
#2	3.922	-1.142	.201	-.612	5.29	3.49	.961

Analysis Report

08/01/03 06:31:03 AM

page 1

Method: 6010B Sample Name: 03ws0897

Operator: pps

Run Time: 08/01/03 06:25:21

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	75.9	82.2	4.10	9.95	1.94	4.75	9.49
SDev	7.2	4.8	5.66	.03	.02	.10	.04
%RSD	9.43	5.82	138.	.263	1.19	2.17	.408
#1	70.9	78.8	.097	9.97	1.92	4.68	9.52
#2	81.0	85.6	8.11	9.93	1.95	4.82	9.46
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.2	9.38	1.80	4.64	16.9	20.3	4.73
SDev	.9	.07	1.46	.31	.1	.6	3.31
%RSD	4.57	.742	81.0	6.65	.371	3.16	70.1
#1	19.8	9.33	2.83	4.85	17.0	20.8	7.07
#2	18.5	9.43	.770	4.42	16.9	19.8	2.39
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.70	4.75	7.20	9.29	21.3	144.9	169.8
SDev	3.68	.29	5.89	.10	.2	7.8	.4
%RSD	136.	6.06	81.7	1.08	1.01	5.402	.2406
#1	.095	4.95	11.4	9.22	21.4	150.4	169.5
#2	5.30	4.55	3.04	9.36	21.1	139.4	170.1
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	103.8	209.0	9.86	3.69	80.1	3.38	1.13
SDev	1.6	6.7	.11	.69	5.6	1.35	.07
%RSD	1.570	3.223	1.09	18.7	6.96	40.0	5.99
#1	102.7	213.8	9.93	4.18	76.2	2.42	1.08
#2	105.0	204.3	9.78	3.20	84.1	4.33	1.18

Analysis Report

08/01/03 06:35:16 AM

page 1

Method: 6010B

Sample Name: 03ws1089

Operator: pps

Run Time: 08/01/03 06:32:01

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	520.	575.	549.	505.	500.	987.	482.
SDev	85.	1.	2.	2.	4.	5.	5.
%RSD	16.3	.095	.308	.407	.871	.555	.999
#1	460.	575.	550.	504.	497.	983.	478.
#2	580.	575.	548.	507.	503.	990.	485.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.	518.	933.	806.	458.	1040.	548.
SDev	4.	4.	16.	119.	37.	9.	31.
%RSD	.787	.837	1.66	14.8	8.17	.905	5.69
#1	481.	515.	944.	722.	432.	1040.	570.
#2	486.	521.	922.	890.	485.	1050.	526.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	1040.	495.	500.	1030.	508600.	453100.
SDev	57.	8.	15.	3.	8.	5183.	4564.
%RSD	11.9	.747	3.00	.524	.734	1.019	1.007
#1	434.	1040.	485.	498.	1020.	504900.	449800.
#2	514.	1050.	506.	502.	1030.	512200.	456300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	187900.	520300.	484.	848.	557.	499.	2030.
SDev	2136.	4918.	4.	74.	29.	27.	25.
%RSD	1.137	.9451	.909	8.76	5.15	5.48	1.21
#1	186400.	516800.	481.	796.	536.	479.	2010.
#2	189500.	523800.	487.	901.	577.	518.	2050.

Analysis Report

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page 1

Method: 6010B

Sample Name: 03w1150

Operator: pps

Run Time: 08/01/03 07:19:44

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	523.	520.	256.	501.	51.6	50.5	102.
SDev	21.	13.	2.	.	.0	.4	.
%RSD	3.97	2.56	.681	.007	.004	.750	.192
#1	509.	511.	255.	501.	51.6	50.3	101.
#2	538.	530.	257.	501.	51.6	50.8	102.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	254.	103.	249.	243.	477.	256.	245.
SDev	1.	1.	5.	18.	28.	1.	10.
%RSD	.298	.803	1.98	7.41	5.82	.301	4.01
#1	253.	102.	246.	230.	458.	255.	238.
#2	254.	104.	253.	256.	497.	256.	252.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	49.5	251.	251.	50.9	548.4	1011.
SDev	6.	.8	2.	.	.1	4.1	29.
%RSD	2.40	1.60	.643	.052	.222	.7535	2.820
#1	246.	49.0	253.	250.	50.8	551.4	1031.
#2	254.	50.1	250.	251.	51.0	545.5	990.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	525.7	1098.	50.8	245.	521.	248.	514.
SDev	.2	86.	.4	14.	16.	7.	2.
%RSD	.0339	7.806	.857	5.57	3.04	2.93	.328
#1	525.8	1158.	51.1	235.	510.	243.	512.
#2	525.6	1037.	50.5	255.	532.	254.	515.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 07:28:27
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.9	10.2	-3.56	-.024	-.651	-.431	-.424
SDev	.3	.8	6.15	.042	.021	.117	.485
%RSD	2.66	8.09	173.	175.	3.27	27.1	114.
#1	11.1	9.64	-7.91	-.053	-.636	-.348	-.767
#2	10.7	10.8	.790	.006	-.666	-.513	-.082
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.314	.533	.580	-1.13	3.65	-.174	-7.54
SDev	.185	.092	1.27	1.63	.06	.233	.53
%RSD	58.9	17.2	219.	145.	1.74	134.	7.05
#1	-.183	.468	1.48	.028	3.69	-.010	-7.92
#2	-.444	.598	-.316	-2.28	3.60	-.339	-7.17
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.75	-.720	2.21	-.907	.178	24.80	10.03
SDev	7.89	.723	3.32	.783	.119	4.71	1.00
%RSD	451.	100.	150.	86.3	66.7	18.98	9.938
#1	7.33	-1.23	-.134	-1.46	.094	28.13	10.73
#2	-3.83	-.209	4.56	-.353	.262	21.47	9.322
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.684	-7.254	.428	-.558	10.5	-1.35	.613
SDev	1.058	2.826	.165	1.511	.5	5.09	.022
%RSD	39.40	38.95	38.5	271.	4.35	378.	3.64
#1	-1.936	-5.256	.545	.510	10.1	2.25	.597
#2	-3.432	-9.252	.312	-1.63	10.8	-4.94	.628

Analysis Report

08/01/03 08:35:29 AM

page 1

Method: 6010B Sample Name: 03ws1151

Operator: pps

Run Time: 08/01/03 08:26:16

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	823.	789.	374.	733.	75.3	72.6	148.
SDev	7.	6.	3.	1.	.3	.2	1.
%RSD	.891	.801	.716	.129	.389	.312	.453
#1	828.	785.	372.	733.	75.5	72.4	147.
#2	818.	794.	376.	732.	75.1	72.8	148.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	368.	152.	353.	332.	694.	373.	352.
SDev	1.	.	24.	53.	52.	.	17.
%RSD	.283	.123	6.68	15.9	7.49	.059	4.74
#1	367.	152.	336.	295.	657.	373.	340.
#2	369.	152.	369.	370.	730.	373.	363.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	350.	72.6	367.	367.	73.2	708.8	1476.
SDev	23.	3.3	6.	1.	.2	1.2	3.
%RSD	6.56	4.56	1.51	.355	.223	.1641	.2226
#1	334.	70.3	371.	366.	73.3	708.0	1478.
#2	366.	75.0	363.	368.	73.1	709.6	1474.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	728.0	1488.	73.3	339.	801.	350.	742.
SDev	9.1	6.	.1	43.	2.	21.	6.
%RSD	1.250	.4364	.108	12.7	.221	5.95	.876
#1	734.5	1493.	73.3	309.	799.	336.	737.
#2	721.6	1484.	73.2	370.	802.	365.	746.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 08:39:31
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.71	5.79	-.448	.116	-2.57	-.140	-.557
SDev	.11	3.96	.100	.111	.02	.202	.198
%RSD	1.44	68.5	22.2	96.1	.641	145.	35.5
#1	7.79	2.98	-.377	.194	-2.56	-.282	-.417
#2	7.64	8.59	-.518	.037	-2.58	.003	-.697
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.081	2.33	-1.53	.249	2.29	.341	4.94
SDev	.148	.84	.97	3.82	.71	.824	1.03
%RSD	182.	35.9	63.7	1530.	31.1	242.	20.8
#1	-.186	2.92	-2.21	-2.45	2.80	.924	4.22
#2	.023	1.74	-.839	2.95	1.79	-.242	5.67
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.745	-.127	-.899	-.375	.483	-44.24	57.28
SDev	6.61	.471	4.576	.004	.034	1.80	1.08
%RSD	887.	370.	509.	1.00	7.01	4.071	1.891
#1	-3.93	.206	2.34	-.373	.459	-42.97	56.51
#2	5.42	-.461	-4.13	-.378	.507	-45.52	58.04
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.15	4.988	.480	-.343	6.43	2.14	1.57
SDev	9.02	1.425	.013	2.868	2.61	4.75	.24
%RSD	63.76	28.56	2.76	837.	40.5	221.	14.9
#1	20.53	5.995	.489	-2.37	4.59	-1.21	1.74
#2	7.770	3.981	.470	1.69	8.27	5.50	1.41

Method: 6010B Sample Name: 03ws1150
 Run Time: 08/01/03 09:33:43
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491.	486.	263.	497.	49.9	49.8	100.
SDev	19.	10.	7.	1.	.0	.0	1.
%RSD	3.84	2.04	2.54	.148	.030	.013	.624
#1	478.	479.	258.	498.	49.9	49.8	101.
#2	505.	493.	267.	497.	49.9	49.8	99.7
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	104.	251.	237.	462.	254.	245.
SDev	.	.	4.	26.	32.	1.	10.
%RSD	.173	.144	1.42	11.0	6.89	.208	4.25
#1	250.	104.	248.	218.	440.	254.	238.
#2	249.	104.	253.	255.	485.	253.	252.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	238.	50.3	244.	249.	50.0	477.9	1018.
SDev	1.	.2	3.	.	.0	.3	.
%RSD	.603	.402	1.17	.109	.014	.0631	.0171
#1	237.	50.4	242.	249.	50.0	478.1	1018.
#2	239.	50.1	246.	250.	50.0	477.7	1017.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496.1	988.9	49.7	241.	488.	240.	509.
SDev	4.2	1.3	.1	19.	13.	4.	3.
%RSD	.8373	.1276	.228	7.69	2.64	1.84	.540
#1	499.0	989.8	49.8	228.	479.	237.	507.
#2	493.1	988.0	49.6	254.	497.	243.	511.

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 09:39:23
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.72	1.71	.872	.033	-2.45	.045	-.307
SDev	2.75	3.48	.427	.041	.03	.139	.360
%RSD	58.3	204.	49.0	122.	1.34	311.	117.
#1	6.67	4.17	1.17	.062	-2.43	.143	-.052
#2	2.77	-.753	.569	.004	-2.47	-.053	-.561
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.367	2.14	-1.18	-1.07	2.11	-.163	-1.92
SDev	.437	.00	.08	.20	.71	.061	6.02
%RSD	119.	.129	6.52	18.8	33.5	37.6	313.
#1	-.058	2.14	-1.24	-.924	2.62	-.207	-6.18
#2	-.677	2.14	-1.13	-1.21	1.61	-.120	2.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.827	-.996	3.25	-.588	.487	2.219	56.84
SDev	.907	.252	3.35	.045	.205	.826	.35
%RSD	110.	25.3	103.	7.58	42.1	37.21	.6195
#1	.185	-.818	5.62	-.556	.632	1.635	56.60
#2	1.47	-1.17	.883	-.619	.342	2.803	57.09
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.06	12.47	.580	-1.10	2.71	-.090	1.19
SDev	4.62	.95	.042	.11	3.24	2.611	.42
%RSD	35.34	7.616	7.23	9.76	119.	2910.	34.9
#1	16.33	13.15	.610	-1.03	5.00	-1.94	1.49
#2	9.799	11.80	.550	-1.18	.423	1.76	.899

Analysis Report

08/01/03 10:28:49 AM

page 1

Method: 6010B Sample Name: 166554-002

Operator: mw

Run Time: 08/01/03 10:25:49

Comment: 83290,20

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.4	-9.83	1.17	16.4	-2.81	-.444	-.036
SDev	1.1	12.12	.73	.3	.35	.417	1.516
%RSD	9.64	123.	62.8	1.92	12.5	93.8	4180.
#1	12.1	-18.4	.648	16.2	-2.56	-.739	-1.11
#2	10.6	-1.26	1.68	16.7	-3.06	-.150	1.04
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.32	2.35	-8.02	8.84	.194	.040	-7.25
SDev	1.09	1.46	11.43	7.14	2.66	1.55	14.26
%RSD	82.5	62.1	143.	80.8	1370.	3910.	197.
#1	-2.09	1.32	-16.1	13.9	-1.69	-1.06	-17.3
#2	-.549	3.38	.064	3.79	2.08	1.14	2.83
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.33	-2.80	4.49	-.118	18.0	110.2	34710.
SDev	2.77	2.61	1.32	1.408	.4	7.3	210.
%RSD	52.0	93.4	29.5	1200.	2.13	6.593	.6054
#1	7.30	-4.64	3.55	-1.11	17.7	105.0	34860.
#2	3.37	-.950	5.43	.878	18.2	115.3	34560.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	676.3	93480.	519.	3.22	-2.76	1.14	10.9
SDev	41.9	394.	2.	.95	7.72	2.90	2.5
%RSD	6.194	.4213	.328	29.6	279.	255.	23.1
#1	705.9	93750.	520.	3.90	-8.22	-.913	12.7
#2	646.7	93200.	518.	2.55	2.69	3.19	9.12

Analysis Report

08/01/03 10:38:32 AM

page 1

Method: 6010B Sample Name: 03ws1150
 Run Time: 08/01/03 10:35:28
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	522.	501.	263.	505.	51.7	50.4	104.
SDev	5.	7.	6.	2.	.7	.3	.
%RSD	.952	1.37	2.45	.387	1.34	.636	.447
#1	525.	496.	267.	506.	52.2	50.7	104.
#2	518.	506.	258.	504.	51.2	50.2	103.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	256.	107.	250.	254.	486.	260.	256.
SDev	2.	.	5.	19.	19.	2.	1.
%RSD	.630	.290	2.12	7.31	3.90	.903	.234
#1	257.	107.	246.	241.	473.	262.	257.
#2	255.	107.	253.	267.	500.	259.	256.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	51.8	253.	258.	52.3	489.5	1089.
SDev	4.	.5	7.	2.	.9	16.8	17.
%RSD	1.80	.942	2.72	.717	1.70	3.441	1.542
#1	243.	52.1	249.	259.	52.9	477.6	1101.
#2	250.	51.4	258.	256.	51.7	501.4	1077.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	548.6	1052.	52.2	253.	508.	250.	525.
SDev	20.0	19.	.6	14.	3.	3.	.
%RSD	3.643	1.763	1.06	5.60	.573	1.10	.088
#1	562.7	1066.	52.6	243.	506.	248.	525.
#2	534.5	1039.	51.8	263.	510.	252.	524.

Analysis Report

08/01/03 10:42:45 AM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 10:39:43
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.2	10.4	-1.86	.167	-3.09	-.158	-.080
SDev	5.3	5.2	2.17	.029	.02	.283	.556
%RSD	40.4	50.3	117.	17.5	.532	179.	694.
#1	9.40	6.67	-3.39	.188	-3.10	.042	.313
#2	16.9	14.0	-.327	.147	-3.08	-.358	-.473
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.130	2.58	2.05	.450	5.78	.775	4.21
SDev	.028	.12	1.52	2.44	1.10	.056	4.74
%RSD	21.4	4.48	74.3	542.	19.0	7.28	113.
#1	.150	2.50	3.12	-1.27	6.56	.815	7.57
#2	.111	2.66	.972	2.17	5.00	.735	.856
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.09	.107	1.76	-.048	.888	-2.288	63.45
SDev	2.22	.373	2.46	.131	.112	3.088	1.35
%RSD	106.	348.	139.	273.	12.6	135.0	2.124
#1	.521	.371	.027	.045	.967	-.1043	62.50
#2	3.66	-.156	3.50	-.140	.809	-4.471	64.41
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.66	-10.92	.534	.982	11.3	2.80	2.24
SDev	3.95	3.18	.005	1.12	5.2	.10	.52
%RSD	20.11	29.11	1.02	114.	46.5	3.58	23.2
#1	22.46	-8.672	.538	.192	7.58	2.87	2.60
#2	16.87	-13.17	.530	1.77	15.0	2.73	1.87

Analysis Report

08/01/03 10:46:21 AM

page 1

Method: 6010B Sample Name: qc220938 Operator: mw
 Run Time: 08/01/03 10:43:21
 Comment: 83290,50
 Mode: CONC Corr. Factor: 1

Qc220938 11/1/03 3/1/03

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.28	-1.28	-4.55	6.91	-3.20	-.181	-.297
SDev	2.42	1.67	3.92	.04	.06	.157	.427
%RSD	45.8	130.	86.0	.596	2.02	86.8	144.
#1	6.99	-.101	-1.78	6.88	-3.15	-.070	-.599
#2	3.57	-2.46	-7.32	6.94	-3.25	-.292	.005
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.061	2.31	-.470	-.108	1.34	-.024	-2.52
SDev	.118	.10	2.427	.904	.12	.372	2.33
%RSD	192.	4.31	517.	833.	8.92	1560.	92.5
#1	.145	2.38	-2.19	.531	1.43	.239	-4.16
#2	-.022	2.23	1.25	-.747	1.26	-.287	-.870
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.266	-.564	5.56	-.040	6.90	19.92	14750.
SDev	.503	.776	6.46	.298	.14	2.01	12.
%RSD	189.	138.	116.	746.	2.06	10.10	.0835
#1	-.621	-1.11	10.1	.171	6.80	21.34	14740.
#2	.090	-.015	.998	-.251	7.01	18.49	14760.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	220.1	39010.	220.	-.229	.907	-1.02	2.55
SDev	4.3	.	.	.206	1.92	1.11	.02
%RSD	1.956	.0013	.113	90.2	211.	109.	.717
#1	217.1	39010.	220.	-.375	2.26	-1.80	2.54
#2	223.1	39010.	220.	-.083	-.448	-.230	2.57

Analysis Report

08/01/03 10:49:50 AM

page 1

Method: 6010B Sample Name: ~~qe220938~~ *mw* Operator: mw
 Run Time: 08/01/03 10:46:50 *QC 220.729 8/1/03*
 Comment: 83290,100
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.02	-2.22	2.02	3.18	-3.34	.191	-.286
SDev	1.87	.35	9.81	.02	.03	.240	.195
%RSD	46.5	15.9	486.	.537	.791	126.	68.1
#1	5.34	-1.97	8.96	3.17	-3.32	.361	-.148
#2	2.70	-2.47	-4.92	3.19	-3.36	.021	-.423
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.357	3.09	-1.65	-.936	1.69	.910	2.21
SDev	.058	.55	.52	1.878	.53	.082	11.7
%RSD	16.3	17.7	31.8	201.	31.1	9.00	528.
#1	.316	2.70	-1.28	-2.26	2.07	.852	-6.04
#2	.398	3.48	-2.02	.391	1.32	.968	10.5
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.05	.006	9.29	-.231	7.32	.7885	6840.
SDev	1.18	.516	3.96	.132	.23	2.232	10.
%RSD	57.4	8680.	42.7	56.9	3.14	283.1	.1418
#1	-2.88	-.359	12.1	-.324	7.48	-.7900	6847.
#2	-1.22	.371	6.49	-.138	7.16	2.367	6833.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	108.7	17790.	101.	-1.17	-.142	-.631	1.52
SDev	14.7	33.	.	1.08	.858	4.671	.09
%RSD	13.52	.1854	.114	91.7	602.	741.	5.99
#1	98.27	17810.	102.	-1.94	.464	-3.93	1.45
#2	119.1	17760.	101.	-.413	-.749	2.67	1.58

Analysis Report

08/01/03 10:53:33 AM

page 1

Method: 6010B Sample Name: 166599-014

Operator: mw

Run Time: 08/01/03 10:50:32

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.148	5.68	-1.22	.264	-3.38	.168	6.19
SDev	5.991	4.20	3.15	.251	.15	.103	8.49
%RSD	4040.	74.0	258.	95.0	4.33	61.3	137.
#1	-4.38	8.65	-3.45	.441	-3.48	.095	12.2
#2	4.09	2.71	1.00	.087	-3.28	.240	.185
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.165	2.68	5.17	7.17	2.19	.814	-9.91
SDev	.910	.97	1.84	9.17	.74	.473	5.72
%RSD	552.	36.2	35.6	128.	33.8	58.1	57.7
#1	.479	3.37	6.47	13.7	2.71	1.15	-5.87
#2	-.809	2.00	3.87	.680	1.67	.479	-14.0
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.21	-.862	-.703	-.343	4.05	11.28	136.8
SDev	4.48	.181	7.370	.290	.27	41.29	19.9
%RSD	72.1	21.0	1050.	84.4	6.65	366.1	14.56
#1	3.04	-.734	-5.91	-.138	4.24	40.47	150.9
#2	9.38	-.990	4.51	-.548	3.86	-17.92	122.7
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	146.7	8.513	1.49	6.50	3.73	.837	2.70
SDev	156.9	18.55	1.45	6.73	.80	1.08	1.26
%RSD	107.0	217.8	97.4	104.	21.5	129.	46.8
#1	257.6	21.63	2.52	11.3	4.30	.073	3.59
#2	35.75	-4.600	.465	1.74	3.17	1.60	1.81

Analysis Report

08/01/03 10:57:01 AM

page 1

Method: 6010B Sample Name: 166560-022 Operator: mw
 Run Time: 08/01/03 10:54:00
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.41	3.77	-4.16	.391	-3.32	.035	5.68
SDev	4.03	6.07	4.95	.156	.09	.132	7.59
%RSD	167.	161.	119.	39.9	2.61	380.	133.
#1	-.434	8.06	-7.66	.502	-3.38	-.058	11.0
#2	5.26	-.515	-.664	.281	-3.26	.128	.319
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.616	4.47	1.31	.724	1.49	.954	7.19
SDev	.617	.31	4.17	3.52	.41	.385	2.53
%RSD	100.	7.03	319.	486.	27.4	40.4	35.2
#1	-.180	4.25	4.25	3.21	1.78	1.23	8.98
#2	-1.05	4.69	-1.64	-1.76	1.20	.681	5.41
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.83	.483	6.70	-.387	4.68	-2.442	174.0
SDev	3.69	.110	7.62	.253	.18	7.290	3.6
%RSD	131.	22.8	114.	65.4	3.93	298.5	2.096
#1	5.44	.405	1.31	-.208	4.81	2.713	176.6
#2	.216	.561	12.1	-.566	4.55	-7.597	171.4
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	163.5	-28.09	1.93	.917	3.32	4.28	2.44
SDev	115.2	5.75	.93	3.73	2.70	3.30	.20
%RSD	70.43	20.47	48.2	407.	81.4	77.2	8.07
#1	245.0	-32.15	2.59	3.56	5.23	6.62	2.58
#2	82.08	-24.02	1.27	-1.72	1.41	1.95	2.30

Analysis Report

08/01/03 11:00:30 AM

page 1

Method: 6010B Sample Name: 166561-023

Operator: mw

Run Time: 08/01/03 10:57:29

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.107	3.10	-4.43	.412	-3.42	.262	5.91
SDev	.718	.11	2.07	.145	.06	.116	7.77
%RSD	672.	3.52	46.7	35.2	1.87	44.3	132.
#1	-.401	3.18	-5.90	.514	-3.47	.180	11.4
#2	.615	3.03	-2.97	.309	-3.37	.344	.414
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.272	20.8	3.77	-1.36	.057	1.07	-1.37
SDev	.058	.1	.57	2.77	.206	.20	1.08
%RSD	21.4	.566	15.2	204.	358.	18.5	78.8
#1	.313	20.7	4.17	.602	-.088	1.21	-.605
#2	.231	20.9	3.37	-3.32	.203	.928	-2.13
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.80	-.179	5.26	-.315	13.7	3.068	141.0
SDev	8.92	.447	.78	.106	.1	15.43	3.6
%RSD	318.	250.	14.8	33.6	.603	502.8	2.524
#1	-3.50	.137	4.71	-.390	13.7	13.97	143.5
#2	9.11	-.495	5.81	-.240	13.8	-7.839	138.5
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	143.8	-33.57	1.66	.352	2.11	1.41	1.73
SDev	115.4	.38	.78	2.04	.17	5.59	.07
%RSD	80.26	1.135	47.1	579.	7.91	395.	3.96
#1	225.3	-33.84	2.22	1.79	1.99	-2.54	1.68
#2	62.18	-33.30	1.11	-1.09	2.22	5.37	1.78

Analysis Report

08/01/03 11:03:58 AM

page 1

Method: 6010B Sample Name: 166561-028

Operator: mw

Run Time: 08/01/03 11:00:57

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.07	-5.53	.192	7.55	-3.45	.033	6.16
SDev	2.20	4.72	2.02	.19	.05	.276	8.47
%RSD	205.	85.3	1050.	2.55	1.53	826.	137.
#1	-2.62	-8.87	1.62	7.68	-3.49	-.162	12.1
#2	.485	-2.20	-1.23	7.41	-3.41	.229	.171
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.129	196.	2.49	3.30	-1.15	.756	1.15
SDev	.201	2.	.30	4.68	1.50	.635	11.5
%RSD	156.	1.15	12.1	142.	131.	84.0	1000.
#1	.271	195.	2.28	6.61	-.088	1.20	-7.00
#2	-.013	198.	2.70	-.009	-2.21	.307	9.30
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.260	-.383	-5.72	-.139	25.9	1.916	5251.
SDev	2.239	.446	.88	.015	.1	25.12	66.
%RSD	862.	116.	15.5	10.8	.390	1311.	1.251
#1	-1.84	-.068	-6.35	-.150	25.9	19.68	5204.
#2	1.32	-.698	-5.10	-.129	25.8	-15.85	5297.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	137.3	694.2	1.59	3.03	-4.05	.210	1.50
SDev	115.8	8.5	.89	3.02	3.88	5.33	.48
%RSD	84.35	1.218	56.0	99.7	95.9	2540.	32.4
#1	219.2	688.2	2.22	5.16	-6.79	-3.56	1.84
#2	55.41	700.2	.961	.895	-1.30	3.98	1.16

Analysis Report

08/01/03 11:07:26 AM

page 1

Method: 6010B Sample Name: 166552-004

Operator: mw

Run Time: 08/01/03 11:04:25

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.623	-3.46	7.25	44.3	-3.54	.391	8.15
SDev	5.85	5.25	2.09	.6	.07	.185	7.96
%RSD	938.	152.	28.8	1.33	1.96	47.3	97.7

#1	-3.51	-7.17	8.72	43.9	-3.49	.260	13.8
#2	4.76	.258	5.77	44.7	-3.59	.522	2.52

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.4	9.34	9.83	12.6	.282	28.4	-.629
SDev	.5	.70	1.56	1.2	1.23	.2	2.962
%RSD	4.15	7.47	15.9	9.50	436.	.617	471.

#1	12.8	9.83	10.9	13.4	1.15	28.6	-2.72
#2	12.1	8.85	8.72	11.7	-.587	28.3	1.47

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.75	-.538	9.36	10.3	16.8	1390.	58720.
SDev	6.42	.453	7.46	.3	.3	23.	1622.
%RSD	65.8	84.4	79.8	3.11	1.69	1.656	2.763

#1	5.21	-.858	14.6	10.5	16.6	1373.	57570.
#2	14.3	-.217	4.08	10.0	17.0	1406.	59860.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3765.	78320.	1070.	11.6	-2.10	6.29	104.
SDev	7.	2129.	28.	1.3	5.45	5.27	2.
%RSD	.1850	2.718	2.59	11.3	260.	83.7	2.28

#1	3770.	76820.	1050.	12.6	-5.95	2.57	102.
#2	3760.	79830.	1090.	10.7	1.76	10.0	106.

Method: 6010B Sample Name: 166552-005

Operator: mw

Run Time: 08/01/03 11:07:53

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.638	1.98	6.08	27.1	-3.59	.270	6.46
SDev	2.611	1.87	1.76	.2	.05	.511	7.77
%RSD	409.	94.3	28.9	.856	1.42	189.	120.
#1	1.21	.660	4.84	26.9	-3.63	.632	12.0
#2	-2.48	3.31	7.33	27.2	-3.56	-.091	.961
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.85	6.67	9.43	13.2	.537	11.3	.588
SDev	.00	.20	3.04	.6	1.53	.3	10.1
%RSD	.049	2.95	32.2	4.47	285.	2.80	1710.
#1	3.85	6.81	11.6	12.8	-.545	11.5	-6.53
#2	3.85	6.53	7.29	13.6	1.62	11.1	7.70
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.98	.320	.290	8.90	15.9	1242.	46430.
SDev	1.79	.465	5.13	.19	.1	21.	1172.
%RSD	17.9	145.	1770.	2.11	.780	1.694	2.524
#1	11.2	.649	-3.34	9.03	15.8	1227.	45600.
#2	8.71	-.009	3.92	8.77	16.0	1257.	47260.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2315.	69030.	189.	11.9	1.11	6.85	197.
SDev	39.	1749.	3.	.6	.38	2.16	4.
%RSD	1.674	2.534	1.59	5.20	34.0	31.5	2.12
#1	2342.	67790.	187.	12.4	.842	5.32	194.
#2	2287.	70260.	191.	11.5	1.38	8.38	200.

Analysis Report

08/01/03 11:21:33 AM

page 1

Method: 6010B Sample Name: 03ws1089
 Run Time: 08/01/03 11:18:24
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	550.	543.	557.	504.	526.	973.	489.
SDev	7.	14.	5.	1.	.	.	1.
%RSD	1.20	2.57	.918	.100	.040	.009	.129
#1	546.	534.	554.	504.	526.	973.	489.
#2	555.	553.	561.	504.	526.	973.	490.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	486.	526.	902.	1100.	476.	1050.	526.
SDev	.	1.	8.	39.	26.	.	10.
%RSD	.048	.251	.927	3.59	5.39	.038	1.88
#1	486.	525.	896.	1070.	458.	1050.	519.
#2	486.	527.	908.	1130.	495.	1050.	533.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	511.	894.	485.	508.	1030.	541500.	471400.
SDev	33.	81.	11.	1.	.	883.	225.
%RSD	6.48	9.06	2.29	.242	.035	.1631	.0478
#1	488.	952.	492.	507.	1030.	540900.	471500.
#2	535.	837.	477.	509.	1030.	542200.	471200.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	190300.	545500.	503.	1030.	546.	516.	2110.
SDev	174.	156.	.	29.	12.	25.	3.
%RSD	.0914	.0287	.038	2.82	2.11	4.92	.151
#1	190200.	545600.	503.	1010.	538.	498.	2110.
#2	190500.	545400.	503.	1050.	554.	534.	2110.

Analysis Report

08/01/03 11:33:52 AM

page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/01/03 11:27:08

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	780.	785.	381.	743.	76.1	73.5	151.
SDev	43.	2.	3.	3.	.4	.1	1.
%RSD	5.47	.218	.821	.440	.478	.075	.644
#1	749.	783.	379.	740.	75.9	73.5	150.
#2	810.	786.	383.	745.	76.4	73.5	152.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374.	155.	360.	370.	736.	381.	368.
SDev	2.	2.	23.	80.	56.	1.	5.
%RSD	.647	1.58	6.29	21.6	7.60	.250	1.34
#1	373.	153.	344.	313.	696.	381.	364.
#2	376.	157.	376.	426.	775.	382.	371.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	376.	77.0	366.	374.	74.8	770.2	1539.
SDev	20.	.4	6.	3.	.6	7.0	2.
%RSD	5.26	.501	1.57	.862	.755	.9111	.1328
#1	362.	76.7	362.	372.	74.4	775.2	1538.
#2	390.	77.2	371.	377.	75.2	765.3	1540.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	752.2	1537.	74.6	366.	783.	373.	758.
SDev	7.7	3.	.6	61.	15.	15.	13.
%RSD	1.026	.1981	.782	16.6	1.96	3.97	1.74
#1	746.8	1539.	74.1	323.	772.	363.	749.
#2	757.7	1535.	75.0	409.	794.	384.	768.

Analysis Report

08/01/03 11:42:56 AM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 11:39:57
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.1	20.9	2.64	.045	-.014	-.282	-.395
SDev	2.1	4.1	1.84	.050	.048	.204	.033
%RSD	9.25	19.8	69.8	110.	353.	72.4	8.39
#1	24.6	23.9	3.94	.010	.020	-.427	-.371
#2	21.6	18.0	1.34	.081	-.048	-.138	-.418
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.087	2.17	-2.09	.933	1.46	.520	5.12
SDev	.471	.56	2.59	2.81	.77	.298	.29
%RSD	541.	25.9	124.	301.	52.5	57.3	5.67
#1	-.246	1.77	-.262	2.92	2.00	.730	5.33
#2	.420	2.56	-3.92	-1.05	.919	.309	4.92
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.68	-.318	.032	-1.09	.250	2.271	-2.047
SDev	3.06	.261	4.19	.13	.046	3.702	1.093
%RSD	114.	81.9	13100.	11.7	18.3	163.0	53.41
#1	-4.84	-.502	-2.93	-1.18	.282	-.3470	-1.274
#2	-.516	-.134	2.99	-.997	.217	4.889	-2.820
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.02	-13.67	.476	-.075	21.7	-.078	-.299
SDev	4.65	3.86	.069	2.736	3.5	1.942	.055
%RSD	33.17	28.27	14.5	3660.	16.1	2500.	18.2
#1	10.74	-16.40	.428	1.86	24.1	-1.45	-.261
#2	17.31	-10.94	.525	-2.01	19.2	1.30	-.338



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166599

Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BAPSB18 [0.3]	166599-001	LCPSB02 [0.3]	166599-018
BAPSB18 [1]	166599-002	CHPSB18 [0.3]	166599-019
BAPSB17 [0.3] [MSD]	166599-003	CHPSB18 [1]	166599-020
BAPSB17 [1] [MSD]	166599-004	CHPSB18 [2]	166599-021
DUP072803A	166599-005	DUP072903A	166599-022
BAPSB14 [0.3]	166599-006	CHPSB09 [2]	166599-023
BAPSB14 [1] [MSD]	166599-007	CHPSB09 [3]	166599-024
LCPSB05 [0.3]	166599-008	CHPSB09 [4]	166599-025
LCPSB05 [1]	166599-009	CHPSB10 [2]	166599-026
LCPSB04 [0.3]	166599-010	DUP072903B	166599-027
LCPSB04 [1]	166599-011	CHPSB10 [3]	166599-028
LCPSB01 [0.3]	166599-012	CHPSB10 [4]	166599-029
LCPSB01 [1]	166599-013	CHPSB16 [0.3]	166599-030
LCPSB03 [0.3]	166599-015	DUP072903C	166599-031
LCPSB03 [1]	166599-016	CHPSB16 [1]	166599-032
LCPSB02 [1]	166599-017	CHPSB16 [2]	166599-033

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: 
Operations Manager

Date: 8/11/03

Signature: 
Project Manager

Date: 8/11/03

Laboratory Number: **166599**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/29/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for thirty-two soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample LCPSB01 [1] (166599-013) for aluminum, iron, and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries of sample LCPSB01 [1] for copper and antimony, and of samples BAPSB14 [1] [MSD] (166599-007) and BAPSB17 [0.3] [MSD] (166599-003) for antimony, and of sample BAPSB17 [1] [MSD] (166599-004) for antimony, copper and lead, were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The serial dilution sample analyzed on 8/1/03 at 07:06 was outside acceptance limits for arsenic and thallium. The serial dilution sample analyzed on 8/1/03 at 07:10 was outside acceptance limits for arsenic. The serial dilution sample analyzed on 8/1/03 at 07:32 was outside acceptance limits for lead and thallium. The serial dilution sample analyzed on 8/1/03 at 12:59 was outside acceptance limits for arsenic and thallium. No other analytical problems were encountered.

Chain of Custody

166599

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

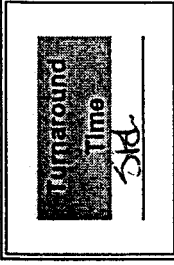
Site Name: Presidio - Firing Range

Job Number: 2893.07

Project Manager/Contact: Dorinda Sherman

Samplers: Matthew R. Richards

Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix		No. Containers & Preservative							Analysis Requested	Hold	Remarks		
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other						
1 BAPSB18C03	7-28-03	1055		X												19 metals - per 2873.07 project [M50]	
2 BAPSB18C17	7-28-03	1100		X												BAPSB17C03 [M50]	
3 BAPSB17C03	7-28-03	1120		X												BAPSB17C17 [M50]	
4 BAPSB17C17	7-28-03	1125		X												5 metals - Ba, Pb, Cu, Fe, Zn	
5 DUP0728C03A	7-28-03	1128		X												level 4	
6 BAPSB14C03	7-28-03	1210		X												DATA VALIDATION	
7 BAPSB14C17	7-28-03	1215		X													
8 LCP5B05C03	7-28-03	1425		X													
9 LCP5B05C17	7-28-03	1430		X													
10 LCP5B04C03	7-28-03	1445		X													
11 LCP5B04C17	7-28-03	1510		X													
12 LCP5B01C03	7-28-03	1515		X													
13 LCP5B01C17	7-28-03	1520		X													
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>7/29/03</u>		Time <u>1110</u>		Received by: (Signature) <u>[Signature]</u>										Date <u>7/29/03</u>	Time <u>1110</u>
Relinquished by: (Signature)		Date		Time		Received by: (Signature)										Date	Time
Relinquished by: (Signature)		Date		Time		Received by Lab: (Signature)										Date	Time
Sent to Laboratory (Name): <u>Curtis & Tompkins</u>				Method of Shipment <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS													
Laboratory Comments/Notes:																	

COC Number: 002865

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

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CHAIN OF CUSTODY RECORD

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2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 1 of 1

Site Name:

Job Number: 2893.07

Project Manager/Contact: Dorinda Thompson

Samplers:

Recorder (Signature Required):

Field Sample Identification No.	Date	Time	Lab Sample No.	Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other
CP5B03C03	7/28/03	1550		X					1		
CP5B03C03	7-28-03	1548		X						1	
CP5B03C03	7/28/03	1551		X						1	
CP5B02C1	7-28-03	1535		X						1	
CP5B02C03	7/28/03	1536		X						1	
CHPSB18C03	7/27/03	0900		X						1	
CHPSB18C1	7/27/03	0905		X						1	
CHPSB18C2	7/28/03	0907		X						1	
DU0707A03A	7/29/03	0930		X						1	
CHPSB09C2	7/29/03	0945		X						1	
CHPSB09C3	7/29/03	0950		X							
CHPSB09C4	7/29/03	0955		X							

Analysis Requested		Date	
5 metals		Received by: (Signature)	Date
19 metals		Received by: (Signature)	Date
		Received by Lab: (Signature)	Date
Method of Shipment: <input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Private Courier (Co. Name)			

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Sent to Laboratory (Name):

Laboratory Comments/Notes:

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COC Number: 002835

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SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166599 Date Received: 7-29-03 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-29-03 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____ N/A

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... YES ☒ NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... YES ☒ NO

6. Did you sign the custody papers in the appropriate place?..... YES ☒ NO

7. Was project identifiable from custody papers?..... YES ☒ NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES ☒ NO

Type of ice: wet Temperature: 4.2

B. Login Phase

Date Logged In: 7-29-03 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: In ziploc bags

2. Did all bottles arrive unbroken?..... YES ☒ NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... YES ☒ NO

4. Did bottle labels agree with custody papers?..... YES ☒ NO

5. Were appropriate containers used for the tests indicated?..... YES ☒ NO

6. Were correct preservatives added to samples?..... YES ☒ NO

7. Was sufficient amount of sample sent for tests indicated?..... YES ☒ NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES ☒ NO N/A

9. Was the client contacted concerning this sample delivery?..... YES ☒ NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Results & QC Summary

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB01[1]	Batch#:	83342
Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 1%

Analyte	Result	RL	Diln Fac
Aluminum	4,400	4.5	1.000
Antimony	ND	2.7	1.000
Arsenic	2.6	0.23	1.000
Barium	40	0.45	1.000
Beryllium	0.26	0.090	1.000
Cadmium	0.81	0.23	1.000
Chromium	38	0.45	1.000
Cobalt	5.2	0.90	1.000
Copper	8.9	0.45	1.000
Iron	8,800	23	5.000
Lead	7.8	0.14	1.000
Magnesium	2,600	23	1.000
Manganese	210	0.45	1.000
Nickel	30	0.90	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	24	0.45	1.000
Zinc	30	0.90	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB09 [3]	Batch#:	83342
Lab ID:	166599-024	Sampled:	07/29/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,100	4.9	1.000
Antimony	ND	2.9	1.000
Arsenic	1.9	0.24	1.000
Barium	17	0.49	1.000
Beryllium	ND	0.098	1.000
Cadmium	0.60	0.24	1.000
Chromium	28	0.49	1.000
Cobalt	3.6	0.98	1.000
Copper	3.8	0.49	1.000
Iron	6,600	49	10.00
Lead	6.3	0.15	1.000
Magnesium	1,700	24	1.000
Manganese	81	0.49	1.000
Nickel	21	0.98	1.000
Selenium	0.32	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	17	0.49	1.000
Zinc	15	0.98	1.000

ND= Not Detected
 RL= Reporting Limit
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Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB09[4]	Batch#:	83342
Lab ID:	166599-025	Sampled:	07/29/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 3%

Analyte	Result	RL	Diln Fac
Aluminum	5,500	46	10.00
Antimony	ND	2.7	1.000
Arsenic	2.2	0.23	1.000
Barium	25	0.46	1.000
Beryllium	0.15	0.091	1.000
Cadmium	0.77	0.23	1.000
Chromium	30	0.46	1.000
Cobalt	4.7	0.91	1.000
Copper	3.8	0.46	1.000
Iron	8,200	46	10.00
Lead	3.0	0.14	1.000
Magnesium	2,100	23	1.000
Manganese	100	0.46	1.000
Nickel	27	0.91	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	23	0.46	1.000
Zinc	15	0.91	1.000

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB10 [2]	Batch#:	83342
Lab ID:	166599-026	Sampled:	07/29/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,200	40	10.00
Antimony	ND	2.4	1.000
Arsenic	2.0	0.20	1.000
Barium	18	0.40	1.000
Beryllium	0.098	0.080	1.000
Cadmium	0.61	0.20	1.000
Chromium	27	0.40	1.000
Cobalt	4.0	0.80	1.000
Copper	2.7	0.40	1.000
Iron	6,500	40	10.00
Lead	2.1	0.12	1.000
Magnesium	1,800	20	1.000
Manganese	89	0.40	1.000
Nickel	23	0.80	1.000
Selenium	ND	0.20	1.000
Silver	ND	0.20	1.000
Thallium	ND	0.20	1.000
Vanadium	18	0.40	1.000
Zinc	13	0.80	1.000



Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP072903B	Batch#:	83342
Lab ID:	166599-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,600	47	10.00
Antimony	ND	2.8	1.000
Arsenic	2.1	0.23	1.000
Barium	18	0.47	1.000
Beryllium	0.11	0.093	1.000
Cadmium	0.68	0.23	1.000
Chromium	30	0.47	1.000
Cobalt	4.4	0.93	1.000
Copper	3.0	0.47	1.000
Iron	7,300	47	10.00
Lead	2.0	0.14	1.000
Magnesium	1,900	23	1.000
Manganese	110	0.47	1.000
Nickel	23	0.93	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	0.43	0.23	1.000
Vanadium	22	0.47	1.000
Zinc	14	0.93	1.000

ND= Not Detected

RL= Reporting Limit

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Barium

Lab #: 166599 Location: Presidio Firing Ranges
 Client: Treadwell & Rollo Prep: EPA 3050
 Project#: 2893.07 Analysis: EPA 6010B
 Analyte: Barium Diln Fac: 1.000
 Matrix: Soil Received: 07/29/03
 Units: mg/Kg

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
BAPSB18 [0.3]	SAMPLE	166599-001	81	0.52	dry	7%	83339	07/28/03	07/31/03	08/04/03
BAPSB18 [1]	SAMPLE	166599-002	58	0.54	dry	9%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [0.3] [MSD]	SAMPLE	166599-003	48	0.51	dry	6%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [1] [MSD]	SAMPLE	166599-004	31	0.52	dry	5%	83339	07/28/03	07/31/03	08/04/03
DUP072803A	SAMPLE	166599-005	41	0.50	dry	11%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [0.3]	SAMPLE	166599-006	57	0.50	dry	8%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [1] [MSD]	SAMPLE	166599-007	37	0.54	dry	10%	83337	07/28/03	07/31/03	08/01/03
LCPSB05 [0.3]	SAMPLE	166599-008	44	0.49	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB05 [1]	SAMPLE	166599-009	21	0.48	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [0.3]	SAMPLE	166599-010	23	0.47	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [1]	SAMPLE	166599-011	16	0.47	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB01 [0.3]	SAMPLE	166599-012	17	0.44	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [0.3]	SAMPLE	166599-015	15	0.41	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [1]	SAMPLE	166599-016	17	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [1]	SAMPLE	166599-017	21	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [0.3]	SAMPLE	166599-018	16	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-019	41	0.47	dry	2%	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-020	40	0.51	dry	3%	83339	07/29/03	07/31/03	08/04/03

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Barium

Lab #: 166599 Client: Treadwell & Rollo Location: Presidio Firing Ranges
 Project#: 2893.07 Prep: EPA 3050
 Analyte: Barium Analysis: EPA 6010B
 Matrix: Soil Diln Fac: 1.000
 Units: mg/Kg Received: 07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB18[2]	SAMPLE	166599-021	31	0.48	dry	2%	83339	07/29/03	07/31/03	08/04/03
DUP072903A	SAMPLE	166599-022	34	0.43	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB09[2]	SAMPLE	166599-023	34	0.48	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB10[3]	SAMPLE	166599-028	18	0.44	dry	2%	83337	07/29/03	07/31/03	08/01/03
CHPSB10[4]	SAMPLE	166599-029	18	0.51	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[0.3]	SAMPLE	166599-030	51	0.49	dry	4%	83337	07/29/03	07/31/03	08/01/03
DUP072903C	SAMPLE	166599-031	30	0.49	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[1]	SAMPLE	166599-032	30	0.48	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[2]	SAMPLE	166599-033	24	0.45	dry	3%	83337	07/29/03	07/31/03	08/01/03
	BLANK	QC220909	ND	0.50	as received		83337		07/31/03	08/01/03
	BLANK	QC220915	ND	0.50	as received		83339		07/31/03	08/04/03
	BLANK	QC220939	ND	0.50	as received		83342		08/01/03	08/01/03

ND= Not Detected
 RL= Reporting Limit
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44.0



Curtis & Tompkins, Ltd.

Copper

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RI	Paste	Moisture	Batch#	Sampled	Prepared	Analyzed
BAPSB18 [0.3]	SAMPLE	166599-001	70	0.52	dry	7%	83339	07/28/03	07/31/03	08/04/03
BAPSB18 [1]	SAMPLE	166599-002	13	0.54	dry	9%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [0.3] [MSD]	SAMPLE	166599-003	9.4	0.51	dry	6%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [1] [MSD]	SAMPLE	166599-004	7.5	0.52	dry	5%	83339	07/28/03	07/31/03	08/04/03
DUP072803A	SAMPLE	166599-005	6.5	0.50	dry	11%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [0.3]	SAMPLE	166599-006	11	0.50	dry	8%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [1] [MSD]	SAMPLE	166599-007	6.7	0.54	dry	10%	83337	07/28/03	07/31/03	08/01/03
LCPSB05 [0.3]	SAMPLE	166599-008	4.4	0.49	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB05 [1]	SAMPLE	166599-009	3.7	0.48	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [0.3]	SAMPLE	166599-010	6.5	0.47	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [1]	SAMPLE	166599-011	3.9	0.47	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [0.3]	SAMPLE	166599-012	3.6	0.44	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [1]	SAMPLE	166599-015	3.1	0.41	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [1]	SAMPLE	166599-016	3.3	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [0.3]	SAMPLE	166599-017	4.7	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-018	3.2	0.50	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-019	6.0	0.47	dry	2%	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-020	6.0	0.51	dry	3%	83339	07/29/03	07/31/03	08/04/03

ND= Not Detected
 RL= Reporting Limit
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Copper

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analysed
CHPSB18 [2]	SAMPLE	166599-021	4.2	0.48	dry	2%	83339	07/29/03	07/31/03	08/04/03
DUP072903A	SAMPLE	166599-022	4.7	0.43	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB09 [2]	SAMPLE	166599-023	4.2	0.48	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB10 [3]	SAMPLE	166599-028	2.9	0.44	dry	2%	83337	07/29/03	07/31/03	08/01/03
CHPSB10 [4]	SAMPLE	166599-029	2.6	0.51	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [0.3]	SAMPLE	166599-030	7.8	0.49	dry	4%	83337	07/29/03	07/31/03	08/01/03
DUP072903C	SAMPLE	166599-031	4.8	0.49	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [1]	SAMPLE	166599-032	4.1	0.48	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [2]	SAMPLE	166599-033	4.1	0.45	dry	3%	83337	07/29/03	07/31/03	08/01/03
	BLANK	QC220909	ND	0.50	as received		83337		07/31/03	08/01/03
	BLANK	QC220915	ND	0.50	as received		83339		07/31/03	08/04/03
	BLANK	QC220939	ND	0.50	as received		83342		08/01/03	08/01/03

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ND= Not Detected
RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Lead

Lab #: 166599
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analyte: Lead
 Matrix: Soil
 Units: mg/Kg

Location: Presidio Firing Ranges
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Received: 07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
BAPSB18 [0.3]	SAMPLE	166599-001	150	0.16	dry	7%	83339	07/28/03	07/31/03	08/04/03
BAPSB18 [1]	SAMPLE	166599-002	52	0.16	dry	9%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [0.3] [MSD]	SAMPLE	166599-003	44	0.15	dry	6%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [1] [MSD]	SAMPLE	166599-004	91	0.15	dry	5%	83339	07/28/03	07/31/03	08/04/03
DUP072803A	SAMPLE	166599-005	11	0.15	dry	11%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [0.3]	SAMPLE	166599-006	36	0.15	dry	8%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [1] [MSD]	SAMPLE	166599-007	6.1	0.16	dry	10%	83337	07/28/03	07/31/03	08/01/03
LCPSB05 [0.3]	SAMPLE	166599-008	3.1	0.15	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB05 [1]	SAMPLE	166599-009	8.8	0.14	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [0.3]	SAMPLE	166599-010	7.1	0.14	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [1]	SAMPLE	166599-011	7.4	0.14	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [0.3]	SAMPLE	166599-012	5.2	0.13	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [1]	SAMPLE	166599-015	2.7	0.12	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [1]	SAMPLE	166599-016	3.1	0.15	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [0.3]	SAMPLE	166599-017	21	0.15	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-018	3.4	0.15	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-019	81	0.14	dry	2%	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-020	69	0.15	dry	3%	83339	07/29/03	07/31/03	08/04/03

ND= Not Detected

RL= Reporting Limit

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Curtis & Tompkins, Ltd.

Lead

Lab #: 166599
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analyte: Lead
 Matrix: Soil
 Units: mg/Kg

Location: Presidio Firing Ranges
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Received: 07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB18[2]	SAMPLE	166599-021	10	0.14	dry	2%	83339	07/29/03	07/31/03	08/04/03
DUP072903A	SAMPLE	166599-022	4.7	0.13	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB09[2]	SAMPLE	166599-023	9.4	0.14	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB10[3]	SAMPLE	166599-028	6.1	0.13	dry	2%	83337	07/29/03	07/31/03	08/01/03
CHPSB10[4]	SAMPLE	166599-029	9.5	0.15	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[0.3]	SAMPLE	166599-030	130	0.15	dry	4%	83337	07/29/03	07/31/03	08/01/03
DUP072903C	SAMPLE	166599-031	41	0.15	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[1]	SAMPLE	166599-032	8.7	0.14	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16[2]	SAMPLE	166599-033	12	0.14	dry	3%	83337	07/29/03	07/31/03	08/01/03
	BLANK	QC220909	ND	0.15	as received		83337		07/31/03	08/01/03
	BLANK	QC220915	ND	0.15	as received		83339		07/31/03	08/04/03
	BLANK	QC220939	ND	0.15	as received		83342		08/01/03	08/01/03

ND= Not Detected
 RL= Reporting Limit
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Antimony

Lab #: 166599 Client: Treadwell & Rollo Project#: 2893.07 Analyte: Antimony Matrix: Soil Units: mg/Kg

Location: Presidio Firing Ranges
Prep: EPA 3050
Analysis: EPA 6010B
Diln Fac: 1.000
Received: 07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
BAPSB18 [0.3]	SAMPLE	166599-001	ND	3.1	dry	7%	83339	07/28/03	07/31/03	08/04/03
BAPSB18 [1]	SAMPLE	166599-002	ND	3.2	dry	9%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [0.3] [MSD]	SAMPLE	166599-003	ND	3.1	dry	6%	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [1] [MSD]	SAMPLE	166599-004	ND	3.1	dry	5%	83339	07/28/03	07/31/03	08/04/03
DUP072803A	SAMPLE	166599-005	ND	3.0	dry	11%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [0.3]	SAMPLE	166599-006	ND	3.0	dry	8%	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [1] [MSD]	SAMPLE	166599-007	ND	3.3	dry	10%	83337	07/28/03	07/31/03	08/01/03
LCPSB05 [0.3]	SAMPLE	166599-008	ND	2.9	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB05 [1]	SAMPLE	166599-009	ND	2.9	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [0.3]	SAMPLE	166599-010	ND	2.8	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [1]	SAMPLE	166599-011	ND	2.8	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB01 [0.3]	SAMPLE	166599-012	ND	2.7	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [0.3]	SAMPLE	166599-015	ND	2.5	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [1]	SAMPLE	166599-016	ND	3.0	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [1]	SAMPLE	166599-017	ND	3.0	dry	1%	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [0.3]	SAMPLE	166599-018	ND	3.0	dry	1%	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-019	ND	2.8	dry	2%	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-020	ND	3.0	dry	3%	83339	07/29/03	07/31/03	08/04/03

ND= Not Detected
RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Antimony

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB18 [2]	SAMPLE	166599-021	ND	2.9	dry	2%	83339	07/29/03	07/31/03	08/04/03
DUP072903A	SAMPLE	166599-022	ND	2.6	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB09 [2]	SAMPLE	166599-023	ND	2.9	dry	3%	83339	07/29/03	07/31/03	08/04/03
CHPSB10 [3]	SAMPLE	166599-028	ND	2.7	dry	2%	83337	07/29/03	07/31/03	08/01/03
CHPSB10 [4]	SAMPLE	166599-029	ND	3.1	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [0.3]	SAMPLE	166599-030	ND	3.0	dry	4%	83337	07/29/03	07/31/03	08/01/03
DUP072903C	SAMPLE	166599-031	ND	2.9	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [1]	SAMPLE	166599-032	ND	2.9	dry	3%	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [2]	SAMPLE	166599-033	ND	2.7	dry	3%	83337	07/29/03	07/31/03	08/01/03
	BLANK	QC220909	ND	3.0	as received		83337		07/31/03	08/01/03
	BLANK	QC220915	ND	3.0	as received		83339		07/31/03	08/04/03
	BLANK	QC220939	ND	3.0	as received		83342		08/01/03	08/01/03

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Zinc

Lab #: 166599 Location: Presidio Firing Ranges
 Client: Treadwell & Rollo Prep: EPA 3050
 Project#: 2893.07 Analysis: EPA 6010B
 Analyte: Zinc Units: mg/Kg
 Matrix: Soil Received: 07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln Fac	Batch#	Sampled	Prepared	Analyzed
BAPSB18 [0.3]	SAMPLE	166599-001	350	10	dry	7%	10.00	83339	07/28/03	07/31/03	08/04/03
BAPSB18 [1]	SAMPLE	166599-002	98	1.1	dry	9%	1.000	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [0.3] [MSD]	SAMPLE	166599-003	41	1.0	dry	6%	1.000	83339	07/28/03	07/31/03	08/04/03
BAPSB17 [1] [MSD]	SAMPLE	166599-004	22	1.0	dry	5%	1.000	83339	07/28/03	07/31/03	08/04/03
DUP072803A	SAMPLE	166599-005	31	0.99	dry	11%	1.000	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [0.3]	SAMPLE	166599-006	48	1.0	dry	8%	1.000	83339	07/28/03	07/31/03	08/04/03
BAPSB14 [1] [MSD]	SAMPLE	166599-007	31	1.1	dry	10%	1.000	83337	07/28/03	07/31/03	08/01/03
LCPSB05 [0.3]	SAMPLE	166599-008	15	0.98	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB05 [1]	SAMPLE	166599-009	19	0.97	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [0.3]	SAMPLE	166599-010	21	0.93	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB04 [1]	SAMPLE	166599-011	21	0.94	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB01 [0.3]	SAMPLE	166599-012	16	0.89	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [0.3]	SAMPLE	166599-015	14	0.82	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB03 [1]	SAMPLE	166599-016	15	0.99	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [1]	SAMPLE	166599-017	18	1.0	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
LCPSB02 [0.3]	SAMPLE	166599-018	16	1.0	dry	1%	1.000	83339	07/28/03	07/31/03	08/04/03
CHPSB18 [0.3]	SAMPLE	166599-019	47	0.95	dry	2%	1.000	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [1]	SAMPLE	166599-020	46	1.0	dry	3%	1.000	83339	07/29/03	07/31/03	08/04/03
CHPSB18 [2]	SAMPLE	166599-021	18	0.95	dry	2%	1.000	83339	07/29/03	07/31/03	08/04/03

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Zinc

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Units:	mg/Kg
Matrix:	Soil	Received:	07/29/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture Dbln Fac	Batch#	Sampled	Prepared	Analyzed
DUP072903A	SAMPLE	166599-022	15	0.86	dry	1.000	83339	07/29/03	07/31/03	08/04/03
CHPSB09 [2]	SAMPLE	166599-023	19	0.96	dry	1.000	83339	07/29/03	07/31/03	08/04/03
CHPSB10 [3]	SAMPLE	166599-028	14	0.89	dry	1.000	83337	07/29/03	07/31/03	08/01/03
CHPSB10 [4]	SAMPLE	166599-029	13	1.0	dry	1.000	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [0.3]	SAMPLE	166599-030	54	0.99	dry	1.000	83337	07/29/03	07/31/03	08/01/03
DUP072903C	SAMPLE	166599-031	25	0.97	dry	1.000	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [1]	SAMPLE	166599-032	18	0.95	dry	1.000	83337	07/29/03	07/31/03	08/01/03
CHPSB16 [2]	SAMPLE	166599-033	16	0.91	dry	1.000	83337	07/29/03	07/31/03	08/01/03
	BLANK	QC220909	ND	1.0	as received	1.000	83337		07/31/03	08/01/03
	BLANK	QC220915	ND	1.0	as received	1.000	83339		07/31/03	08/04/03
	BLANK	QC220939	ND	1.0	as received	1.000	83342		08/01/03	08/01/03

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ND= Not Detected
RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220939	Batch#:	83342
Matrix:	Soil	Prepared:	08/01/03
Units:	mg/Kg	Analyzed:	08/01/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220909	Batch#:	83337
Matrix:	Soil	Prepared:	07/31/03
Units:	mg/Kg	Analyzed:	08/01/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC220915	Batch#:	83339
Matrix:	Soil	Prepared:	07/31/03
Units:	mg/Kg	Analyzed:	08/04/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC220940

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	909.0	91	75-125
Antimony	100.0	119.0	119	75-125
Arsenic	50.00	47.85	96	75-125
Barium	100.0	96.00	96	75-125
Beryllium	2.500	2.495	100	75-125
Cadmium	10.00	9.500	95	75-125
Chromium	100.0	95.50	96	75-125
Cobalt	25.00	23.35	93	75-125
Copper	12.50	11.85	95	75-125
Iron	1,000	944.0	94	75-125
Lead	100.0	90.50	91	75-125
Magnesium	1,000	943.0	94	75-125
Manganese	25.00	23.05	92	75-125
Nickel	25.00	23.85	95	75-125
Selenium	50.00	43.70	87	75-125
Silver	10.00	9.350	94	75-125
Thallium	50.00	45.35	91	75-125
Vanadium	25.00	23.80	95	75-125
Zinc	25.00	23.25	93	75-125

Type: BSD

Lab ID: QC220941

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	910.5	91	75-125	0	30
Antimony	100.0	120.0	120	75-125	1	30
Arsenic	50.00	48.55	97	75-125	1	30
Barium	100.0	96.00	96	75-125	0	30
Beryllium	2.500	2.500	100	75-125	0	30
Cadmium	10.00	9.500	95	75-125	0	30
Chromium	100.0	95.50	96	75-125	0	30
Cobalt	25.00	23.40	94	75-125	0	30
Copper	12.50	12.20	98	75-125	3	30
Iron	1,000	943.5	94	75-125	0	30
Lead	100.0	91.00	91	75-125	1	30
Magnesium	1,000	944.0	94	75-125	0	30
Manganese	25.00	23.05	92	75-125	0	30
Nickel	25.00	23.90	96	75-125	0	30
Selenium	50.00	44.35	89	75-125	1	30
Silver	10.00	9.400	94	75-125	1	30
Thallium	50.00	45.85	92	75-125	1	30
Vanadium	25.00	23.85	95	75-125	0	30
Zinc	25.00	23.35	93	75-125	0	30

RPD= Relative Percent Difference

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**Target Analyte List Metals**

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220910

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	110.5	111	75-125
Barium	100.0	97.50	98	75-125
Copper	12.50	12.25	98	75-125
Lead	100.0	103.0	103	75-125
Zinc	25.00	23.85	95	75-125

Type: BSD Lab ID: QC220911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	107.0	107	75-125	3	30
Barium	100.0	94.00	94	75-125	4	30
Copper	12.50	12.00	96	75-125	2	30
Lead	100.0	99.50	100	75-125	3	30
Zinc	25.00	23.25	93	75-125	3	30

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03
Diln Fac:	1.000		

Type: BS Lab ID: QC220916

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.50	99	75-125
Barium	100.0	93.50	94	75-125
Copper	12.50	11.40	91	75-125
Lead	100.0	88.00	88	75-125
Zinc	25.00	21.90	88	75-125

Type: BSD Lab ID: QC220917

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.00	99	75-125	1	30
Barium	100.0	94.00	94	75-125	1	30
Copper	12.50	11.45	92	75-125	0	30
Lead	100.0	89.50	90	75-125	2	30
Zinc	25.00	22.25	89	75-125	2	30



Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220910	100.0	97.50	98	75-125		
BSD	QC220911	100.0	94.00	94	75-125	4	30

Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220916	100.0	93.50	94	75-125		
BSD	QC220917	100.0	94.00	94	75-125	1	30

Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB17 [1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220921	30.70	91.14	111.6	89	75-125	5%		
MSD	QC220922		96.57	117.8	90	75-125	5%	1	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220910	12.50	12.25	98	75-125		
BSD	QC220911	12.50	12.00	96	75-125	2	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220916	12.50	11.40	91	75-125		
BSD	QC220917	12.50	11.45	92	75-125	0	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220940	12.50	11.85	95	75-125		
BSD	QC220941	12.50	12.20	98	75-125	3	30

Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220910	100.0	103.0	103	75-125		
BSD	QC220911	100.0	99.50	100	75-125	3	30

Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220916	100.0	88.00	88	75-125		
BSD	QC220917	100.0	89.50	90	75-125	2	30



Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220940	100.0	90.50	91	75-125		
BSD	QC220941	100.0	91.00	91	75-125	1	30

Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220910	100.0	110.5	111	75-125		
BSD	QC220911	100.0	107.0	107	75-125	3	30

Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220916	100.0	98.50	99	75-125		
BSD	QC220917	100.0	99.00	99	75-125	1	30

Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220940	100.0	119.0	119	75-125		
BSD	QC220941	100.0	120.0	120	75-125	1	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83337
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220910	25.00	23.85	95	75-125		
BSD	QC220911	25.00	23.25	93	75-125	3	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83339
Units:	mg/Kg	Prepared:	07/31/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220916	25.00	21.90	88	75-125		
BSD	QC220917	25.00	22.25	89	75-125	2	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220940	25.00	23.25	93	75-125		
BSD	QC220941	25.00	23.35	93	75-125	0	30



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Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB01[1]	Batch#:	83342
MSS Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC220942

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	4,449	952.9	5,813 >LR	143 NM	75-125
Antimony	1.213	95.29	80.52	83	75-125
Arsenic	2.579	47.65	45.98	91	75-125
Barium	39.64	95.29	154.9	121	75-125
Beryllium	0.2629	2.382	2.578	97	75-125
Cadmium	0.8117	9.529	9.577	92	75-125
Chromium	38.01	95.29	121.0	87	75-125
Cobalt	5.186	23.82	31.16	109	75-125
Copper	8.929	11.91	24.16	128 *	75-125
Iron	8,823	952.9	9,977 >LR	121 NM	75-125
Lead	7.756	95.29	90.05	86	75-125
Magnesium	2,591	952.9	3,485	94	75-125
Manganese	210.1	23.82	519.3	1298 NM	75-125
Nickel	30.35	23.82	51.46	89	75-125
Selenium	<0.1515	47.65	38.69	81	75-125
Silver	<0.02424	9.529	8.957	94	75-125
Thallium	0.1768	47.65	42.69	89	75-125
Vanadium	24.35	23.82	48.12	100	75-125
Zinc	29.63	23.82	50.51	88	75-125

Type: MSD
Lab ID: QC220943

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	828.0	5,543 >LR	132 NM	75-125	NC	30
Antimony	82.80	58.37	69 *	75-125	18	30
Arsenic	41.40	39.58	89	75-125	2	30
Barium	82.80	118.8	96	75-125	17	30
Beryllium	2.070	2.211	94	75-125	3	30
Cadmium	8.280	8.238	90	75-125	2	30
Chromium	82.80	111.4	89	75-125	2	30
Cobalt	20.70	24.09	91	75-125	14	30
Copper	10.35	19.58	103	75-125	13	30
Iron	828.0	9,575 >LR	91 NM	75-125	NC	30
Lead	82.80	78.24	85	75-125	1	30
Magnesium	828.0	3,339	90	75-125	1	30
Manganese	20.70	266.2	271 NM	75-125	63 *	30
Nickel	20.70	46.78	79	75-125	4	30
Selenium	41.40	33.37	81	75-125	1	30
Silver	8.280	7.659	93	75-125	2	30
Thallium	41.40	36.31	87	75-125	2	30
Vanadium	20.70	43.05	90	75-125	4	30
Zinc	20.70	47.19	85	75-125	1	30

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

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14.0



Target Analyte List Metals			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03
Diln Fac:	1.000		

Moisture: 10%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.030	105.8	45.66	42 *	75-125
Barium	36.53	105.8	142.9	100	75-125
Copper	6.721	13.23	20.11	101	75-125
Lead	6.125	105.8	113.8	102	75-125
Zinc	30.57	26.46	57.14	100	75-125

Moisture: 10%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	106.3	41.57	38 *	75-125	10	30
Barium	106.3	139.3	97	75-125	3	30
Copper	13.29	19.83	99	75-125	2	30
Lead	106.3	112.2	100	75-125	2	30
Zinc	26.58	56.88	99	75-125	1	30

12.0

Target Analyte List Metals

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03
Diln Fac:	1.000		

Type: MS Moisture: 6%
 Lab ID: QC220918

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.4043	102.8	45.64	44 *	75-125
Barium	48.05	102.8	144.9	94	75-125
Copper	9.417	12.85	21.17	92	75-125
Lead	43.83	102.8	126.4	80	75-125
Zinc	40.72	25.70	61.67	82	75-125

Type: MSD Moisture: 6%
 Lab ID: QC220919

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	104.3	48.71	47 *	75-125	5	30
Barium	104.3	142.9	91	75-125	2	30
Copper	13.04	21.02	89	75-125	2	30
Lead	104.3	127.2	80	75-125	0	30
Zinc	26.07	62.58	84	75-125	1	30



Target Analyte List Metals			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB17[1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03
Diln Fac:	1.000		

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.151	91.14	42.47	45 *	75-125
Barium	30.70	91.14	111.6	89	75-125
Copper	7.534	11.39	17.18	85	75-125
Lead	91.33	91.14	139.4	53 *	75-125
Zinc	22.29	22.78	40.83	81	75-125

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	96.57	48.29	49 *	75-125	7	30
Barium	96.57	117.8	90	75-125	1	30
Copper	12.07	15.40	65 *	75-125	14	30
Lead	96.57	86.91	-5 *	75-125	49 *	30
Zinc	24.14	42.97	86	75-125	2	30

43.0

Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220912	36.53	105.8	142.9	100	75-125	10%		
MSD	QC220913		106.3	139.3	97	75-125	10%	3	30



Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220918	48.05	102.8	144.9	94	75-125	6%		
MSD	QC220919		104.3	142.9	91	75-125	6%	2	30



Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83342
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/01/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC220940	100.0	96.00	96	75-125		
BSD	QC220941	100.0	96.00	96	75-125	0	30

Barium			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCPSB01[1]	Batch#:	83342
MSS Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220942	39.64	95.29	154.9	121	75-125	1%		
MSD	QC220943		82.80	118.8	96	75-125	1%	17	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220912	6.721	13.23	20.11	101	75-125	10%		
MSD	QC220913		13.29	19.83	99	75-125	10%	2	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220918	9.417	12.85	21.17	92	75-125	6%		
MSD	QC220919		13.04	21.02	89	75-125	6%	2	30

Copper			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB17 [1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220921	7.534	11.39	17.18	85	75-125	5%		
MSD	QC220922		12.07	15.40	65 *	75-125	5%	14	30

Copper

Lab #: 166599 Client: Treadwell & Rollo Project#: 2893.07 Location: Presidio Firing Ranges
 Prep: EPA 3050 Analysis: EPA 6010B
 Analyte: Copper Diln Fac: 1.000
 Field ID: LCPSB01[1] Batch#: 83342
 MSS Lab ID: 166599-013 Sampled: 07/28/03
 Matrix: Soil Received: 07/29/03
 Units: mg/Kg Prepared: 08/01/03
 Basis: dry Analyzed: 08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220942	8.929	11.91	24.16	128 *	75-125	1%		
MSD	QC220943		10.35	19.58	103	75-125	1%	13	30

**Lead**

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220912	6.125	105.8	113.8	102	75-125	10%		
MSD	QC220913		106.3	112.2	100	75-125	10%	2	30

Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220918	43.83	102.8	126.4	80	75-125	6%		
MSD	QC220919		104.3	127.2	80	75-125	6%	0	30



Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB17 [1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220921	91.33	91.14	139.4	53 *	75-125	5%		
MSD	QC220922		96.57	86.91	-5 *	75-125	5%	49 *	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Lead			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCPSB01[1]	Batch#:	83342
MSS Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220942	7.756	95.29	90.05	86	75-125	1%		
MSD	QC220943		82.80	78.24	85	75-125	1%	1	30

**Antimony**

Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220912	1.030	105.8	45.66	42 *	75-125	10%		
MSD	QC220913		106.3	41.57	38 *	75-125	10%	10	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220918	<0.4043	102.8	45.64	44 *	75-125	6%		
MSD	QC220919		104.3	48.71	47 *	75-125	6%	5	30

Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB17[1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220921	1.151	91.14	42.47	45 *	75-125	5%		
MSD	QC220922		96.57	48.29	49 *	75-125	5%	7	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCPSB01[1]	Batch#:	83342
MSS Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220942	1.213	95.29	80.52	83	75-125	1%		
MSD	QC220943		82.80	58.37	69 *	75-125	1%	18	30



Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB14 [1] [MSD]	Batch#:	83337
MSS Lab ID:	166599-007	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220912	30.57	26.46	57.14	100	75-125	10%		
MSD	QC220913		26.58	56.88	99	75-125	10%	1	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB17 [0.3] [MSD]	Batch#:	83339
MSS Lab ID:	166599-003	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220918	40.72	25.70	61.67	82	75-125	6%		
MSD	QC220919		26.07	62.58	84	75-125	6%	1	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB17[1] [MSD]	Batch#:	83339
MSS Lab ID:	166599-004	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	07/31/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220921	22.29	22.78	40.83	81	75-125	5%		
MSD	QC220922		24.14	42.97	86	75-125	5%	2	30

Zinc			
Lab #:	166599	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCPSB01[1]	Batch#:	83342
MSS Lab ID:	166599-013	Sampled:	07/28/03
Matrix:	Soil	Received:	07/29/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/01/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC220942	29.63	23.82	50.51	88	75-125	1%		
MSD	QC220943		20.70	47.19	85	75-125	1%	1	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079011
Filename : tr212174
IDF : 5.0
PDF : 44.64286
Run type : SER
Samplenum: QC220944
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 07:06
Units : mg/Kg

MSS : 166599-013

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	73307079009	4400	4.46	4370	22.3	1	10	u
Antimony	73307079009	ND	2.68	ND	13.4	--	10	u
Arsenic	73307079009	2.55	0.223	2.23	1.12	13	10	fu
Barium	73307079009	39.2	0.446	38.4	2.23	2	10	u
Beryllium	73307079009	0.260	0.0893	ND	0.446	--	10	u
Cadmium	73307079009	0.804	0.223	ND	1.12	--	10	u
Calcium	73307079009	2990	22.3	3020	112	1	10	u
Chromium	73307079009	37.6	0.446	37.1	2.23	2	10	u
Cobalt	73307079009	5.13	0.893	4.96	4.46	--	10	u
Copper	73307079009	8.84	0.446	8.21	2.23	7	10	u
Iron \	*** usable MSS data not found ***							
Lead ,	73307079009	7.68	0.134	7.12	0.670	7	10	u
Magnesium	73307079009	2560	22.3	2580	112	1	10	u
Manganese	73307079009	208	0.446	209	2.23	0	10	u
Molybdenum	73307079009	ND	0.893	ND	4.46	--	10	u
Nickel	73307079009	30.0	0.893	29.9	4.46	0	10	u
Selenium	73307079010	ND	0.223	ND	1.12	--	10	u
Silver	73307079009	ND	0.223	ND	1.12	--	10	u
Thallium	73307079009	ND	0.223	3.24	1.12	--	10	ab*
Vanadium	73307079009	24.1	0.446	23.7	2.23	2	10	u
Zinc	73307079009	29.3	0.893	29.5	4.46	0	10	u
Titanium	73307079009	372	0.446	364	2.23	2	10	u

a=rsd out b=noncompliant f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079012
Filename : tr212175
IDF : 5.0
PDF : 44.64286
Run type : SER
Samplenum: QC220944
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 07:10
Units : mg/Kg

MSS : 166599-013

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	73307079009	4400	4.46	4360	22.3	1	10	
Antimony	73307079009	ND	2.68	ND	13.4	--	10	
Arsenic	73307079009	2.55	0.223	2.41	1.12	6	10	ab*
Barium	73307079009	39.2	0.446	38.2	2.23	3	10	
Beryllium	73307079009	0.260	0.0893	ND	0.446	--	10	
Cadmium	73307079009	0.804	0.223	ND	1.12	--	10	
Calcium	73307079009	2990	22.3	3050	112	2	10	
Chromium	73307079009	37.6	0.446	36.6	2.23	3	10	
Cobalt	73307079009	5.13	0.893	4.91	4.46	--	10	
Copper	73307079009	8.84	0.446	8.48	2.23	4	10	
Iron	*** usable MSS data not found ***							
Lead	73307079009	7.68	0.134	7.14	0.670	7	10	
Magnesium	73307079009	2560	22.3	2670	112	4	10	
Manganese	73307079009	208	0.446	209	2.23	0	10	
Molybdenum	73307079009	ND	0.893	ND	4.46	--	10	
Nickel	73307079009	30.0	0.893	29.9	4.46	0	10	
Selenium	73307079010	ND	0.223	ND	1.12	--	10	
Silver	73307079009	ND	0.223	ND	1.12	--	10	
Thallium	73307079009	ND	0.223	ND	1.12	--	10	u
Vanadium	73307079009	24.1	0.446	23.4	2.23	3	10	
Zinc	73307079009	29.3	0.893	29.5	4.46	0	10	
Titanium	73307079009	372	0.446	362	2.23	3	10	

a=rsd out b=noncompliant u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73307079013	Seqnum : 73307079016
Filename : tr212176	Filename : tr212179
IDF : 5.0	IDF : 25.0
PDF : 44.64286	PDF : 44.64286
Run type : MSS	Run type : SER
Samplenum: 166599-013	Samplenum: QC220944
Matrix : Soil	Matrix : Soil
Batchnum : 83342	Batchnum : 83342
Inj : 01-AUG-2003 07:14	Inj : 01-AUG-2003 07:32
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	4350	22.3	4330	112	0	10	
Antimony	ND	13.4	ND	67.0	--	10	
Arsenic	1.47	1.12	ND	5.58	--	10	
Barium	37.9	2.23	37.4	11.2	1	10	
Beryllium	ND	0.446	ND	2.23	--	10	
Cadmium	ND	1.12	ND	5.58	--	10	
Calcium	3000	112	3020	558	1	10	
Chromium	36.8	2.23	35.6	11.2	3	10	
Cobalt	5.02	4.46	ND	22.3	--	10	
Copper	8.35	2.23	ND	11.2	--	10	
Iron	8730	22.3	8700	112	0	10	u
Lead	7.86	0.670	5.33	3.35	32	10	f
Magnesium	2560	112	2540	558	1	10	
Manganese	208	2.23	209	11.2	1	10	
Molybdenum	ND	4.46	ND	22.3	--	10	
Nickel	29.9	4.46	29.9	22.3	--	10	
Selenium	ND	1.12	ND	5.58	--	10	
Silver	ND	1.12	ND	5.58	--	10	
Thallium	ND	1.12	5.99	5.58	--	10	a
Vanadium	23.4	2.23	22.4	11.2	4	10	
Zinc	29.5	4.46	28.7	22.3	--	10	
Titanium	359	2.23	355	11.2	1	10	

a=rsd out f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079080
Filename : tr212243
IDF : 5.0
PDF : 48.78049
Run type : SER
Samplenum: QC220914
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 12:59
Units : mg/Kg

MSS : 166599-007

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	73307079077	ND	2.93	ND	14.6	--	10	u
Arsenic	73307079077	3.29	0.244	2.46	1.22	25	10	fu
Barium	73307079077	32.9	0.488	32.4	2.44	1	10	u
Beryllium	73307079077	0.354	0.0976	ND	0.488	--	10	u
Cadmium	73307079077	1.64	0.244	1.55	1.22	--	10	u
Calcium	73307079077	2330	24.4	2340	122	0	10	u
Chromium	73307079077	69.3	0.488	68.8	2.44	1	10	u
Cobalt	73307079077	11.1	0.976	11.1	4.88	1	10	u
Copper	73307079077	6.05	0.488	6.17	2.44	2	10	u
Iron	*** usable MSS data not found ***							
Lead	73307079077	5.51	0.146	5.20	0.732	6	10	u
Magnesium	73307079077	3730	24.4	3720	122	0	10	u
Manganese	73307079077	264	0.488	263	2.44	0	10	u
Molybdenum	73307079077	ND	0.976	ND	4.88	--	10	u
Nickel	73307079077	88.3	0.976	89.0	4.88	1	10	u
Selenium	73307079078	ND	0.244	ND	1.22	--	10	u
Silver	73307079077	ND	0.244	ND	1.22	--	10	u
Thallium	73307079077	ND	0.244	1.99	1.22	--	10	au
Vanadium	73307079077	42.2	0.488	41.5	2.44	2	10	u
Zinc	73307079077	27.5	0.976	27.6	4.88	0	10	u
Titanium	*** usable MSS data not found ***							

a=rsd out f=recovery failure u=use

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73307079079	Seqnum : 73307079082
Filename : tr212242	Filename : tr212245
IDF : 10.0	IDF : 50.0
PDF : 48.78049	PDF : 48.78049
Run type : MSS	Run type : SER
Samplenum: 166599-007	Samplenum: QC220914
Matrix : Soil	Matrix : Soil
Batchnum : 83337	Batchnum : 83337
Inj : 01-AUG-2003 12:54	Inj : 01-AUG-2003 13:06
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	9400	48.8	9430	244	0	10		u
Antimony	ND	29.3	ND	146	--	10		
Arsenic	*** usable MSS data not found ***							
Barium	33.2	4.88	33.2	24.4	--	10		
Beryllium	ND	0.976	ND	4.88	--	10		
Cadmium	ND	2.44	ND	12.2	--	10		
Calcium	2420	244	2400	1220	--	10		
Chromium	70.7	4.88	69.8	24.4	1	10		
Cobalt	11.0	9.76	ND	48.8	--	10		
Copper	6.98	4.88	ND	24.4	--	10		
Iron	18500	48.8	18700	244	1	10		u
Lead	4.51	1.46	ND	7.32	--	10		
Magnesium	3830	244	3730	1220	2	10		
Manganese	272	4.88	273	24.4	1	10		
Molybdenum	ND	9.76	ND	48.8	--	10		
Nickel	91.2	9.76	91.7	48.8	--	10		
Selenium	ND	2.44	ND	12.2	--	10		
Silver	ND	2.44	ND	12.2	--	10		
Thallium	2.76	2.44	ND	12.2	--	10		
Vanadium	42.1	4.88	41.7	24.4	--	10		
Zinc	28.1	9.76	ND	48.8	--	10		
Titanium	541	4.88	546	24.4	1	10		u

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73311459069	Seqnum : 73311459075
Filename : tr212369	Filename : tr212375
IDF : 1.0	IDF : 5.0
PDF : 47.84689	PDF : 47.84689
Run type : MSS	Run type : SER
Samplenum: 166599-003	Samplenum: QC220920
Matrix : Soil	Matrix : Soil
Batchnum : 83339	Batchnum : 83339
Inj : 04-AUG-2003 13:59	Inj : 04-AUG-2003 14:25
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.87	ND	14.4	--	10	u
Arsenic	2.11	0.239	2.68	1.20	--	10	u
Barium	45.2	0.478	45.5	2.39	1	10	u
Beryllium	0.255	0.0957	0.519	0.478	--	10	u
Cadmium	1.38	0.239	1.46	1.20	--	10	u
Calcium	2490	23.9	2620	120	5	10	u
Chromium	52.2	0.478	54.5	2.39	5	10	u
Cobalt	9.14	0.957	9.59	4.78	--	10	u
Copper	8.85	0.478	8.33	2.39	6	10	u
Iron	*** usable MSS data not found ***						
Lead	41.2	0.144	43.5	0.718	6	10	u
Magnesium	2390	23.9	2540	120	6	10	u
Manganese	228	0.478	235	2.39	3	10	u
Molybdenum	ND	0.957	ND	4.78	--	10	u
Nickel	42.6	0.957	45.5	4.78	7	10	u
Selenium	ND	0.239	ND	1.20	--	10	u
Silver	ND	0.239	ND	1.20	--	10	u
Thallium	ND	0.239	ND	1.20	--	10	u
Vanadium	32.0	0.478	33.0	2.39	3	10	u
Zinc	38.3	0.957	40.0	4.78	4	10	u
Titanium	418	0.478	414	2.39	1	10	u

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079019
Filename : tr212182
IDF : 1.0
PDF : 44.64286
Run type : PDS
Samplenum: QC220945
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 07:44
Units : ug/L

MSS : 166599-013

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73307079009	98670	20000	116500 >LR 89	15-150	:>u
Antimony	73307079009	26.90	2000	2330 115	15-123	u
Arsenic	73307079009	57.20	1000	1010 95	40-126	u
Barium	73307079009	879.0	2000	2780 95	19-138	u
Beryllium	73307079009	5.830	50	54.00 96	58-120	u
Cadmium	73307079009	18.00	200	201.0 92	47-120	u
Calcium	73307079009	66950	20000	84560 88	16-150	u
Chromium	73307079009	843.0	2000	2690 92	35-131	u
Cobalt	73307079009	115.0	500	572.0 91	39-120	u
Copper	73307079009	198.0	250	439.0 96	32-150	u
Iron	73307079013	39130	20000	207000 >LR 57	15-150	:>u
Lead	73307079009	172.0	2000	1940 88	23-137	u
Magnesium	73307079009	57450	20000	76270 94	20-150	u
Manganese	73307079009	4660	500	5010 70	15-150	:u
Molybdenum	73307079009	8.000	400	394.0 97	28-120	u
Nickel	73307079009	673.0	500	1100 85	32-136	u
Selenium	73307079010	ND	1000	884.0 88	38-120	u
Silver	73307079009	ND	200	189.0 95	55-120	u
Thallium	73307079009	3.920	1000	906.0 90	50-120	u
Vanadium	73307079009	540.0	500	995.0 91	25-130	u
Zinc	73307079009	657.0	500	1070 83	20-147	u
Titanium	73307079009	8340	1000	9020 68	15-150	:u

: =recovery not meaningful >=>LR u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079106
Filename : tr212269
IDF : 1.0
PDF : 48.78049
Run type : PDS
Samplenum: QC221049
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 14:47
Units : ug/L

MSS : 166599-007

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	73307079079	19270	20000	200900 >LR 41	15-150	:>u
Antimony	73307079077	19.00	2000	2270 113	15-123	u
Arsenic	73307079077	67.40	1000	1130 106	40-126	u
Barium	73307079077	674.0	2000	2680 100	19-138	u
Beryllium	73307079077	7.250	50	60.80 107	58-120	u
Cadmium	73307079077	33.70	200	232.0 99	47-120	u
Calcium	73307079077	47860	20000	64090 81	16-150	u
Chromium	73307079077	1420	2000	3330 96	35-131	u
Cobalt	73307079077	227.0	500	710.0 97	39-120	u
Copper	73307079077	124.0	250	378.0 102	32-150	u
Iron	73307079079	38000	20000	366900 >LR -66	15-150	:>u
Lead	73307079077	113.0	2000	2170 103	23-137	u
Magnesium	73307079077	76410	20000	93260 84	20-150	u
Manganese	73307079077	5410	500	5560 30	15-150	:u
Molybdenum	73307079077	2.680	400	413.0 103	28-120	u
Nickel	73307079077	1810	500	2250 88	32-136	u
Selenium	73307079078	ND	1000	997.0 100	38-120	u
Silver	73307079077	ND	200	205.0 103	55-120	u
Thallium	73307079077	4.240	1000	963.0 96	50-120	u
Vanadium	73307079077	865.0	500	1340 95	25-130	u
Zinc	73307079077	564.0	500	1040 95	20-147	u
Titanium	73307079079	1110	1000	11700 >LR 60	15-150	:>u

:recovery not meaningful >=>LR u=use

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Standardization Rpt.

Method: 6010B Standard: blank
 Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	-.001	.000	-.001	.001	-.025	.001	.000
Dev	.001	.000	.000	.000	.000	.001	.000
RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	-.000	-.007	.001	-.000	.000	-.000	-.002
Dev	.000	.000	.001	.001	.000	.000	.000
RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.001	.000	-.000	.000	.006	.0325	-.0133
Dev	.001	.000	.000	.000	.000	.0000	.0000
RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	-.0008	.0001	.000	.071			
Dev	.0001	.0001	.000	.000			
RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

ethod: 6010B Standard: cst hi
 un Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

standardization

Report

08/01/03 05:56:54 AM

page 1

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
2068	206.831	Multiple Standards	6625.80	4.25512	08/01/03 05:53:15	
206A	206.832	Multiple Standards	10861.1	-4.95256	08/01/03 05:53:15	
1890	189.042	Multiple Standards	12606.0	12.0996	08/01/03 05:53:15	
4934	493.409	Multiple Standards	180.343	-1.106017	08/01/03 05:53:15	
3130	313.042	Multiple Standards	145.252	3.58223	08/01/03 05:53:15	
2265	226.502	Multiple Standards	424.876	-1.420509	08/01/03 05:53:15	
2677	267.716	Multiple Standards	4035.62	-1.45267	08/01/03 05:53:15	
2286	228.616	Multiple Standards	3592.62	.689783	08/01/03 05:53:15	
3247	324.754	Multiple Standards	1698.73	11.3432	08/01/03 05:53:15	
2203	220.351	Multiple Standards	3210.65	-2.02149	08/01/03 05:53:15	
220A	220.352	Multiple Standards	3068.61	.349390	08/01/03 05:53:15	
2020	202.030	Multiple Standards	3588.89	-.796321	08/01/03 05:53:15	
2316	231.604	Multiple Standards	1287.52	.069626	08/01/03 05:53:15	
1960	196.021	Multiple Standards	12134.7	20.6758	08/01/03 05:53:15	
196A	196.022	Multiple Standards	9986.62	-9.52698	08/01/03 05:53:15	
3280	328.068	Multiple Standards	1476.84	-.513876	08/01/03 05:53:15	
11908	190.864	Multiple Standards	18521.3	8.55638	08/01/03 05:53:15	
2924	292.402	Multiple Standards	2605.16	-.984608	08/01/03 05:53:15	
2138	213.856	Multiple Standards	3715.97	-22.0249	08/01/03 05:53:15	
13082	308.215	Multiple Standards	43764.1	-1421.94	08/01/03 05:53:15	
3179	317.933	Multiple Standards	33923.4	451.181	08/01/03 05:53:15	
2714	271.441	Multiple Standards	41884.3	34.6737	08/01/03 05:53:15	
2790	279.079	Multiple Standards	52929.5	-7.62003	08/01/03 05:53:15	
2576	257.610	Multiple Standards	517.941	-.046598	08/01/03 05:53:15	
220.353	220.353	NONE	NONE	.000000	*08/01/03 05:53:15	
206.838	206.838	NONE	NONE	.000000	*08/01/03 05:53:15	
196.026	196.026	NONE	NONE	.000000	*08/01/03 05:53:15	
3349	334.941	Multiple Standards	545.203	-38.5847	08/01/03 05:53:15	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltpe :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	994.5000	ug/L	-1	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2001.000	ug/L	0	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1017.000	ug/L	2	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2009.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	501.0000	ug/L	0	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	486.1000	ug/L	-3	10	
Antimony	500.0000	546.0000	ug/L	9	10	
Arsenic	250.0000	261.0000	ug/L	4	10	
Barium	500.0000	493.0000	ug/L	-1	10	
Beryllium	50.00000	51.20000	ug/L	2	10	
Cadmium	50.00000	49.10000	ug/L	-2	10	
Calcium	1000.000	984.1000	ug/L	-2	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	249.0000	ug/L	0	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	493.6000	ug/L	-1	10	
Lead	250.0000	248.0000	ug/L	-1	10	
Magnesium	1000.000	1012.000	ug/L	1	10	
Manganese	50.00000	49.30000	ug/L	-1	10	
Molybdenum	500.0000	487.0000	ug/L	-3	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	248.0000	ug/L	-1	10	
Silver	50.00000	49.10000	ug/L	-2	10	
Thallium	250.0000	242.0000	ug/L	-3	10	
Titanium	500.0000	508.0000	ug/L	2	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	49.60000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltpe :

standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	144.9000	ug/L	45	50
Antimony	60.00000	80.10000	ug/L	34	50
Arsenic	5.000000	4.100000	ug/L	-18	50
Barium	10.00000	9.950000	ug/L	-1	50
Beryllium	2.000000	1.940000	ug/L	-3	50
Cadmium	5.000000	4.750000	ug/L	-5	50
Chromium	10.00000	9.490000	ug/L	-5	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	9.380000	ug/L	-6	50
Iron	100.0000	103.8000	ug/L	4	50
Lead	3.000000	3.690000	ug/L	23	50
Manganese	10.00000	9.860000	ug/L	-1	50
Molybdenum	20.00000	16.90000	ug/L	-16	50
Nickel	20.00000	20.30000	ug/L	2	50
Selenium	5.000000	3.380000	ug/L	-32	50
Silver	5.000000	4.750000	ug/L	-5	50
Thallium	5.000000	7.200000	ug/L	44	50
Vanadium	10.00000	9.290000	ug/L	-7	50
Zinc	20.00000	21.30000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltpe :

standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	708.8000	ug/L	-5	10	
Antimony		750.0000	801.0000	ug/L	7	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1476.000	ug/L	-2	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	728.0000	ug/L	-3	10	
Lead		375.0000	339.0000	ug/L	-10	10	
Magnesium		1500.000	1488.000	ug/L	-1	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	694.0000	ug/L	-7	10	
Nickel		375.0000	373.0000	ug/L	-1	10	
Selenium		375.0000	350.0000	ug/L	-7	10	
Silver		75.00000	72.60000	ug/L	-3	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

tandards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	477.9000	ug/L	-4	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	49.80000	ug/L	0	10	
Calcium		1000.000	1018.000	ug/L	2	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	496.1000	ug/L	-1	10	
Lead		250.0000	241.0000	ug/L	-4	10	
Magnesium		1000.000	988.9000	ug/L	-1	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	462.0000	ug/L	-8	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	50.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.5000	ug/L	-2	10	
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1089.000	ug/L	9	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	107.0000	ug/L	7	10	
Iron		500.0000	548.6000	ug/L	10	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1052.000	ug/L	5	10	
Manganese		50.00000	52.20000	ug/L	4	10	
Molybdenum		500.0000	486.0000	ug/L	-3	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.80000	ug/L	4	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	258.0000	ug/L	3	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltpe :

standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.2000	ug/L	3	10	
Antimony		750.0000	783.0000	ug/L	4	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.50000	ug/L	-2	10	
Calcium		1500.000	1539.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	752.2000	ug/L	0	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	758.0000	ug/L	1	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	74.80000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
eqnum: 73307079003
Filename: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL		
Antimony	[4.1100]	60.00000	ug/L	<RL		
Arsenic	[0.5980]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.6380]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1590]	10.00000	ug/L	<RL		
Molybdenum	[1.7300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.3900]	5.000000	ug/L	<RL		
Titanium	[0.9030]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079015
Filename: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[10.030]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5330]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4280]	10.00000	ug/L	<RL		
Molybdenum	[3.6500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2100]	5.000000	ug/L	<RL		
Titanium	[0.6130]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.1780]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
 Legnum: 73307079027
 Filename: tr212190

TJA Trace ICP
 Run Name:
 Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1160]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[57.280]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.3300]		10.00000	ug/L	<	RL
Iron	[14.150]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.9880]		500.0000	ug/L	<	RL
Manganese	[0.4800]		10.00000	ug/L	<	RL
Molybdenum	[2.2900]		20.00000	ug/L	<	RL
Nickel	[0.3410]		20.00000	ug/L	<	RL
Selenium	[2.1400]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.5700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4830]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 09:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2190]	100.0000	ug/L	<RL		
Antimony	[2.7100]	60.00000	ug/L	<RL		
Arsenic	[0.8720]	5.000000	ug/L	<RL		
Barium	[0.0330]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0450]	5.000000	ug/L	<RL		
Calcium	[56.840]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1400]	10.00000	ug/L	<RL		
Iron	[13.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[12.470]	500.0000	ug/L	<RL		
Manganese	[0.5800]	10.00000	ug/L	<RL		
Molybdenum	[2.1100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.2500]	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4870]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 10:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[11.300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1670]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[63.450]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1300]	10.00000	ug/L	<RL	
Copper	[2.5800]	10.00000	ug/L	<RL	
Iron	[19.660]	100.0000	ug/L	<RL	
Lead	[0.9820]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5340]	10.00000	ug/L	<RL	
Molybdenum	[5.7800]	20.00000	ug/L	<RL	
Nickel	[0.7750]	20.00000	ug/L	<RL	
Selenium	[2.8000]	5.000000	ug/L	<RL	
Silver	[0.1070]	5.000000	ug/L	<RL	
Thallium	[1.7600]	5.000000	ug/L	<RL	
Titanium	[2.2400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.8880]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
 Seqnum: 73307079062
 filename: tr212225

TJA Trace ICP
 Run Name:
 Blank Type: CCB

Injected: 01-AUG-2003 11:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.2710]	100.0000	ug/L	<RL		
Antimony	[21.700]	60.00000	ug/L	<RL		
Arsenic	[2.6400]	5.000000	ug/L	<RL		
Barium	[0.0450]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0870]	10.00000	ug/L	<RL		
Copper	[2.1700]	10.00000	ug/L	<RL		
Iron	[14.020]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4760]	10.00000	ug/L	<RL		
Molybdenum	[1.4600]	20.00000	ug/L	<RL		
Nickel	[0.5200]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.0320]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2500]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	508600.0	ug/L	2		
Antimony	500.0000	557.0000	ug/L	11	20	
Arsenic	500.0000	549.0000	ug/L	10	20	
Barium	500.0000	505.0000	ug/L	1	20	
Beryllium	500.0000	500.0000	ug/L	0	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	453100.0	ug/L	-9		
Chromium	500.0000	482.0000	ug/L	-4	20	
Cobalt	500.0000	483.0000	ug/L	-3	20	
Copper	500.0000	518.0000	ug/L	4	20	
Iron	200000.0	187900.0	ug/L	-6		
Lead	1000.000	848.0000	ug/L	-15	20	
Magnesium	500000.0	520300.0	ug/L	4		
Manganese	500.0000	484.0000	ug/L	-3	20	
Molybdenum	500.0000	458.0000	ug/L	-8	20	
Nickel	1000.000	1040.000	ug/L	4	20	
Selenium	500.0000	499.0000	ug/L	0	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	495.0000	ug/L	-1	20	
Titapium	20000.00	2030.000	ug/L	-90		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	1030.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

nstdid : MET07
eqnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltpe :

standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	541500.0	ug/L	8			
Antimony	500.0000	546.0000	ug/L	9	20		
Arsenic	500.0000	557.0000	ug/L	11	20		
Barium	500.0000	504.0000	ug/L	1	20		
Beryllium	500.0000	526.0000	ug/L	5	20		
Cadmium	1000.000	973.0000	ug/L	-3	20		
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Cobalt	500.0000	486.0000	ug/L	-3	20		
Copper	500.0000	526.0000	ug/L	5	20		
Iron	200000.0	190300.0	ug/L	-5			
Lead	1000.000	1030.000	ug/L	3	20		
Magnesium	500000.0	545500.0	ug/L	9			
Manganese	500.0000	503.0000	ug/L	1	20		
Molybdenum	500.0000	476.0000	ug/L	-5	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	516.0000	ug/L	3	20		
Silver	1000.000	894.0000	ug/L	-11	20		
Thallium	500.0000	485.0000	ug/L	-3	20		
Titanium	20000.00	2110.000	ug/L	-89			
Vanadium	500.0000	508.0000	ug/L	2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr212164	CS				01-AUG-2003 05:59 1.0	1.0	1.0				1	
002	tr212165	ICV				01-AUG-2003 06:04 1.0	1.0	1.0				2	
003	tr212166	ICB				01-AUG-2003 06:21 1.0	1.0	1.0				3	
004	tr212167	CRI				01-AUG-2003 06:25 1.0	1.0	1.0				4	4:MG=520300
005	tr212168	ICSAB				01-AUG-2003 06:32 1.0	1.0	1.0					
006	tr212169	BLANK	QC220939	83342	Soil	01-AUG-2003 06:43 1.0	50.0	50.0					
007	tr212170	BS	QC220940	83342	Soil	01-AUG-2003 06:47 1.0	50.0	50.0					
008	tr212171	BSD	QC220941	83342	Soil	01-AUG-2003 06:51 1.0	50.0	50.0					
009	tr212172	MSS	166599-013	83342	Soil	01-AUG-2003 06:56 1.0	44.64286	2					1:FE=196400
010	tr212173	MSS	166599-013	83342	Soil	01-AUG-2003 07:01 1.0	44.64286	1					1:FE=195700
011	tr212174	SER	QC220944	83342	Soil	01-AUG-2003 07:06 5.0	44.64286						
012	tr212175	SER	QC220944	83342	Soil	01-AUG-2003 07:10 5.0	44.64286	1					
013	tr212176	MSS	166599-013	83342	Soil	01-AUG-2003 07:14 5.0	44.64286						
014	tr212177	CCV	03w1150			01-AUG-2003 07:19 1.0	1.0	1.0				5	
015	tr212178	CCB				01-AUG-2003 07:28 1.0	1.0	1.0					
016	tr212179	SER	QC220944	83342	Soil	01-AUG-2003 07:32 25.0	44.64286						2:FE=209400
017	tr212180	MS	QC220942	83342	Soil	01-AUG-2003 07:36 1.0	47.16981						2:FE=231300
018	tr212181	MSD	QC220943	83342	Soil	01-AUG-2003 07:40 1.0	40.98361						2:FE=207000
019	tr212182	PDS	QC220945	83342	Soil	01-AUG-2003 07:44 1.0	44.64286					6 7	1:FE=137400
020	tr212183	SAMPLE	166599-024	83342	Soil	01-AUG-2003 07:49 1.0	47.84689	3					2:FE=188900
021	tr212184	SAMPLE	166599-025	83342	Soil	01-AUG-2003 07:53 1.0	44.24779	2					2:FE=172400
022	tr212185	SAMPLE	166599-026	83342	Soil	01-AUG-2003 07:57 1.0	39.21569	2					2:FE=167200
023	tr212186	SAMPLE	166599-027	83342	Soil	01-AUG-2003 08:01 1.0	45.66210	4					1:FE=139000
024	tr212187	SAMPLE	166599-024	83342	Soil	01-AUG-2003 08:05 1.0	47.84689	1					2:FE=166000
025	tr212188	SAMPLE	166599-027	83342	Soil	01-AUG-2003 08:09 1.0	45.66210	2					
026	tr212189	CCV				01-AUG-2003 08:26 1.0	1.0	1.0				8	
027	tr212190	CCB				01-AUG-2003 08:39 1.0	1.0	1.0					
028	tr212191	SAMPLE	166599-024	83342	Soil	01-AUG-2003 08:43 10.0	47.84689						
029	tr212192	SAMPLE	166599-025	83342	Soil	01-AUG-2003 08:47 10.0	44.24779						
030	tr212193	SAMPLE	166599-026	83342	Soil	01-AUG-2003 08:51 10.0	39.21569	1					
031	tr212194	SAMPLE	166599-027	83342	Soil	01-AUG-2003 08:55 10.0	45.66210						
032	tr212195	SAMPLE	166643-001	83342	Miscel	01-AUG-2003 09:00 1.0	46.72897						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: 1001000 Date: 7/13

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003 09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003 09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003 09:12	1.0	48.30918					3:FE=262700
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003 09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003 09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003 09:33	1.0	1.0				5	
039	tr212202	CCB				01-AUG-2003 09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003 09:49	1.0	50.0					
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003 09:53	1.0	45.04505					2:FE=250500
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003 09:57	1.0	49.50495					3:FE=234100
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003 10:01	1.0	43.29004					2:FE=283000
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003 10:05	1.0	46.08295					2:FE=243700
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003 10:09	1.0	46.29630					2:FE=248000
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003 10:13	1.0	47.84689					4:FE=439200
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003 10:17	1.0	40.0					4:CA=430200
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003 10:20	1.0	49.26108					2:FE=409400
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003 10:25	20.0	1.0			1		
050	tr212213	CCV				01-AUG-2003 10:35	1.0	1.0				5	
051	tr212214	CCB				01-AUG-2003 10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003 10:46	100.0	1.0			1		
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003 10:50	1.0	1.0			1		
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003 10:54	1.0	1.0					
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003 10:57	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003 11:00	1.0	1.0			1		
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003 11:04	1.0	1.0					
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003 11:07	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003 11:18	1.0	1.0				4	4:MG=545500
060	tr212223	ICSAB				01-AUG-2003 11:27	1.0	1.0				8	
061	tr212224	CCV				01-AUG-2003 11:39	1.0	1.0					
062	tr212225	CCB				01-AUG-2003 11:39	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Date:
Page 2 of 2

Standardization Rpt.

Std: 6010B

Standard: blank

Time: 08/01/03 05:47:35

m	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
e	-.001	.000	-.001	.001	-.025	.001	.000
v	.001	.000	.000	.000	.000	.001	.000
D	192.	52.1	8.79	31.7	1.91	52.2	18.9
	.000	.000	-.001	.001	-.025	.001	.000
	-.002	.001	-.001	.000	-.024	.001	.000
em	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
ge	-.000	-.007	.001	-.000	.000	-.000	-.002
ev	.000	.000	.001	.001	.000	.000	.000
SD	61.9	3.54	185.	440.	149.	643.	27.9
	-.000	-.007	.001	-.000	.000	.000	-.001
	-.000	-.007	-.000	.000	-.000	-.000	-.002
em	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
ge	.001	.000	-.000	.000	.006	.0325	-.0133
ev	.001	.000	.000	.000	.000	.0000	.0000
RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
	.001	.000	-.000	.000	.006	.0325	-.0133
	.001	.000	-.001	.000	.006	.0325	-.0133
lem	Fe2714	Mg2790	Mn2576	Ti3349			
vge	-.0008	.0001	.000	.071			
Dev	.0001	.0001	.000	.000			
RSD	14.30	35.31	84.8	.061			
	-.0009	.0002	.000	.071			
	-.0007	.0001	.000	.071			

Method: 6010B Standard: cst hi
 Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	.150	.091	.039	5.55	.640	.236	.050
Dev	.007	.005	.001	.02	.003	.001	.000
RSD	4.92	5.54	1.41	.357	.488	.471	.273
1	.144	.087	.038	5.53	.638	.235	.050
2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	.139	.111	.156	.162	.279	.388	.040
Dev	.000	.000	.000	.002	.002	.001	.001
RSD	.214	.011	.158	.978	.649	.312	1.32
1	.139	.111	.156	.163	.278	.387	.040
2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.051	.068	.027	.192	.034	.0556	.0457
Dev	.000	.001	.000	.001	.000	.0003	.0002
RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

Standardization

Report

Slope = Conc(SIR)/IR

Mod: 6010B

Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
206.831	Multiple Standards	6625.80	4.25512	08/01/03 05:53:15	
206.832	Multiple Standards	10861.1	-4.95256	08/01/03 05:53:15	
189.042	Multiple Standards	12606.0	12.0996	08/01/03 05:53:15	
493.409	Multiple Standards	180.343	-1.06017	08/01/03 05:53:15	
313.042	Multiple Standards	145.252	3.58223	08/01/03 05:53:15	
226.502	Multiple Standards	424.876	-1.420509	08/01/03 05:53:15	
267.716	Multiple Standards	4035.62	-1.45267	08/01/03 05:53:15	
228.616	Multiple Standards	3592.62	.689783	08/01/03 05:53:15	
324.754	Multiple Standards	1698.73	11.3432	08/01/03 05:53:15	
220.351	Multiple Standards	3210.65	-2.02149	08/01/03 05:53:15	
220.352	Multiple Standards	3068.61	.349390	08/01/03 05:53:15	
202.030	Multiple Standards	3588.89	-.796321	08/01/03 05:53:15	
231.604	Multiple Standards	1287.52	.069626	08/01/03 05:53:15	
196.021	Multiple Standards	12134.7	20.6758	08/01/03 05:53:15	
196.022	Multiple Standards	9986.62	-9.52698	08/01/03 05:53:15	
328.068	Multiple Standards	1476.84	-.513876	08/01/03 05:53:15	
190.864	Multiple Standards	18521.3	8.55638	08/01/03 05:53:15	
292.402	Multiple Standards	2605.16	-.984608	08/01/03 05:53:15	
213.856	Multiple Standards	3715.97	-22.0249	08/01/03 05:53:15	
308.215	Multiple Standards	43764.1	-1421.94	08/01/03 05:53:15	
317.933	Multiple Standards	33923.4	451.181	08/01/03 05:53:15	
271.441	Multiple Standards	41884.3	34.6737	08/01/03 05:53:15	
279.079	Multiple Standards	52929.5	-7.62003	08/01/03 05:53:15	
257.610	Multiple Standards	517.941	-.046598	08/01/03 05:53:15	
220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
334.941	Multiple Standards	545.203	-38.5847	08/01/03 05:53:15	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Std : MET07
Inum : 73307079001

Run Name :
Filename : tr212164

Injected : 01-AUG-2003 05:59
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	994.5000	ug/L	-1	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2001.000	ug/L	0	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1017.000	ug/L	2	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2009.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	501.0000	ug/L	0	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

stid : MET07
qnum : 73307079002

Run Name :
Filename : tr212165

Injected : 01-AUG-2003 06:04
Caltype :

Standards: 03WS1149

analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	486.1000	ug/L	-3	10
Antimony	500.0000	546.0000	ug/L	9	10
Arsenic	250.0000	261.0000	ug/L	4	10
Barium	500.0000	493.0000	ug/L	-1	10
Beryllium	50.00000	51.20000	ug/L	2	10
Cadmium	50.00000	49.10000	ug/L	-2	10
Calcium	1000.000	984.1000	ug/L	-2	10
Chromium	100.0000	100.0000	ug/L	0	10
Cobalt	250.0000	249.0000	ug/L	0	10
Copper	100.0000	102.0000	ug/L	2	10
Iron	500.0000	493.6000	ug/L	-1	10
Lead	250.0000	248.0000	ug/L	-1	10
Magnesium	1000.000	1012.000	ug/L	1	10
Manganese	50.00000	49.30000	ug/L	-1	10
Molybdenum	500.0000	487.0000	ug/L	-3	10
Nickel	250.0000	252.0000	ug/L	1	10
Selenium	250.0000	248.0000	ug/L	-1	10
Silver	50.00000	49.10000	ug/L	-2	10
Thallium	250.0000	242.0000	ug/L	-3	10
Titanium	500.0000	508.0000	ug/L	2	10
Vanadium	250.0000	247.0000	ug/L	-1	10
Zinc	50.00000	49.60000	ug/L	-1	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

stid : MET07
gnum : 73307079004

Run Name :
Filename : tr212167

Injected : 01-AUG-2003 06:25
Caltype :

Standards: 03WS0897

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	144.9000	ug/L	45	50
Antimony	60.00000	80.10000	ug/L	34	50
Arsenic	5.000000	4.100000	ug/L	-18	50
Barium	10.00000	9.950000	ug/L	-1	50
Beryllium	2.000000	1.940000	ug/L	-3	50
Cadmium	5.000000	4.750000	ug/L	-5	50
Chromium	10.00000	9.490000	ug/L	-5	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	9.380000	ug/L	-6	50
Iron	100.0000	103.8000	ug/L	4	50
Lead	3.000000	3.690000	ug/L	23	50
Manganese	10.00000	9.860000	ug/L	-1	50
Molybdenum	20.00000	16.90000	ug/L	-16	50
Nickel	20.00000	20.30000	ug/L	2	50
Selenium	5.000000	3.380000	ug/L	-32	50
Silver	5.000000	4.750000	ug/L	-5	50
Thallium	5.000000	7.200000	ug/L	44	50
Vanadium	10.00000	9.290000	ug/L	-7	50
Zinc	20.00000	21.30000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Std : MET07
Inum : 73307079014

Run Name : 03w1150
Filename : tr212177

Injected : 01-AUG-2003 07:19
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	548.4000	ug/L	10	10	
Antimony		500.0000	521.0000	ug/L	4	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	525.7000	ug/L	5	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1098.000	ug/L	10	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	477.0000	ug/L	-5	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	251.0000	ug/L	0	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Std : MET07
Run : 73307079026

Run Name :
Filename : tr212189

Injected : 01-AUG-2003 08:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flag
Aluminum		750.0000	708.8000	ug/L	-5	10
Antimony		750.0000	801.0000	ug/L	7	10
Arsenic		375.0000	374.0000	ug/L	0	10
Barium		750.0000	733.0000	ug/L	-2	10
Beryllium		75.00000	75.30000	ug/L	0	10
Cadmium		75.00000	72.60000	ug/L	-3	10
Calcium		1500.000	1476.000	ug/L	-2	10
Chromium		150.0000	148.0000	ug/L	-1	10
Cobalt		375.0000	368.0000	ug/L	-2	10
Copper		150.0000	152.0000	ug/L	1	10
Iron		750.0000	728.0000	ug/L	-3	10
Lead		375.0000	339.0000	ug/L	-10	10
Magnesium		1500.000	1488.000	ug/L	-1	10
Manganese		75.00000	73.30000	ug/L	-2	10
Molybdenum		750.0000	694.0000	ug/L	-7	10
Nickel		375.0000	373.0000	ug/L	-1	10
Selenium		375.0000	350.0000	ug/L	-7	10
Silver		75.00000	72.60000	ug/L	-3	10
Thallium		375.0000	367.0000	ug/L	-2	10
Titanium		750.0000	742.0000	ug/L	-1	10
Vanadium		375.0000	367.0000	ug/L	-2	10
Zinc		75.00000	73.20000	ug/L	-2	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

stid : MET07
gnum : 73307079038

Run Name :
Filename : tr212201

Injected : 01-AUG-2003 09:33
Caltype :

Standards: 03WS1150

analyzer	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	477.9000	ug/L	-4	10
Antimony		500.0000	488.0000	ug/L	-2	10
Arsenic		250.0000	263.0000	ug/L	5	10
Barium		500.0000	497.0000	ug/L	-1	10
Beryllium		50.00000	49.90000	ug/L	0	10
Cadmium		50.00000	49.80000	ug/L	0	10
Calcium		1000.000	1018.000	ug/L	2	10
Chromium		100.0000	100.0000	ug/L	0	10
Cobalt		250.0000	250.0000	ug/L	0	10
Copper		100.0000	104.0000	ug/L	4	10
Iron		500.0000	496.1000	ug/L	-1	10
Lead		250.0000	241.0000	ug/L	-4	10
Magnesium		1000.000	988.9000	ug/L	-1	10
Manganese		50.00000	49.70000	ug/L	-1	10
Molybdenum		500.0000	462.0000	ug/L	-8	10
Nickel		250.0000	254.0000	ug/L	2	10
Selenium		250.0000	240.0000	ug/L	-4	10
Silver		50.00000	50.30000	ug/L	1	10
Thallium		250.0000	244.0000	ug/L	-2	10
Titanium		500.0000	509.0000	ug/L	2	10
Vanadium		250.0000	249.0000	ug/L	0	10
Zinc		50.00000	50.00000	ug/L	0	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Std : MET07
Run : 73307079050

Run Name :
Filename : tr212213

Injected : 01-AUG-2003 10:35
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	489.5000	ug/L	-2	10
Antimony		500.0000	508.0000	ug/L	2	10
Arsenic		250.0000	263.0000	ug/L	5	10
Barium		500.0000	505.0000	ug/L	1	10
Beryllium		50.00000	51.70000	ug/L	3	10
Cadmium		50.00000	50.40000	ug/L	1	10
Calcium		1000.000	1089.000	ug/L	9	10
Chromium		100.0000	104.0000	ug/L	4	10
Cobalt		250.0000	256.0000	ug/L	2	10
Copper		100.0000	107.0000	ug/L	7	10
Iron		500.0000	548.6000	ug/L	10	10
Lead		250.0000	253.0000	ug/L	1	10
Magnesium		1000.000	1052.000	ug/L	5	10
Manganese		50.00000	52.20000	ug/L	4	10
Molybdenum		500.0000	486.0000	ug/L	-3	10
Nickel		250.0000	260.0000	ug/L	4	10
Selenium		250.0000	250.0000	ug/L	0	10
Silver		50.00000	51.80000	ug/L	4	10
Thallium		250.0000	253.0000	ug/L	1	10
Titanium		500.0000	525.0000	ug/L	5	10
Vanadium		250.0000	258.0000	ug/L	3	10
Zinc		50.00000	52.30000	ug/L	5	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

tid : MET07
num : 73307079061

Run Name :
Filename : tr212224

Injected : 01-AUG-2003 11:27
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.2000	ug/L	3	10	
Antimony		750.0000	783.0000	ug/L	4	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.50000	ug/L	-2	10	
Calcium		1500.000	1539.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	752.2000	ug/L	0	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	758.0000	ug/L	1	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079073

Run Name :
Filename : tr212236

Injected : 01-AUG-2003 12:30
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	503.8000	ug/L	1		10	
Antimony		500.0000	494.0000	ug/L	-1		10	
Arsenic		250.0000	262.0000	ug/L	5		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	52.60000	ug/L	5		10	
Cadmium		50.00000	49.40000	ug/L	-1		10	
Calcium		1000.000	1054.000	ug/L	5		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	252.0000	ug/L	1		10	
Copper		100.0000	104.0000	ug/L	4		10	
Iron		500.0000	532.3000	ug/L	6		10	
Lead		250.0000	245.0000	ug/L	-2		10	
Magnesium		1000.000	1068.000	ug/L	7		10	
Manganese		50.00000	50.40000	ug/L	1		10	
Molybdenum		500.0000	472.0000	ug/L	-6		10	
Nickel		250.0000	257.0000	ug/L	3		10	
Selenium		250.0000	255.0000	ug/L	2		10	
Silver		50.00000	48.90000	ug/L	-2		10	
Thallium		250.0000	249.0000	ug/L	0		10	
Titanium		500.0000	511.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	51.10000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079085

Run Name :
Filename : tr212248

Injected : 01-AUG-2003 13:22
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.1000	ug/L	-1	10	
Antimony		750.0000	786.0000	ug/L	5	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	728.0000	ug/L	-3	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	72.50000	ug/L	-3	10	
Calcium		1500.000	1457.000	ug/L	-3	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	789.0000	ug/L	5	10	
Lead		375.0000	404.0000	ug/L	8	10	
Magnesium		1500.000	1472.000	ug/L	-2	10	
Manganese		75.00000	73.50000	ug/L	-2	10	
Molybdenum		750.0000	772.0000	ug/L	3	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	393.0000	ug/L	5	10	
Silver		75.00000	75.80000	ug/L	1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	73.10000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079097

Run Name :
Filename : tr212260

Injected : 01-AUG-2003 14:13
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.7000	ug/L	3	10	
Antimony		750.0000	784.0000	ug/L	5	10	
Arsenic		375.0000	391.0000	ug/L	4	10	
Barium		750.0000	749.0000	ug/L	0	10	
Beryllium		75.00000	78.20000	ug/L	4	10	
Cadmium		75.00000	74.30000	ug/L	-1	10	
Calcium		1500.000	1471.000	ug/L	-2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	377.0000	ug/L	1	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	806.5000	ug/L	8	10	
Lead		375.0000	409.0000	ug/L	9	10	
Magnesium		1500.000	1508.000	ug/L	1	10	
Manganese		75.00000	75.30000	ug/L	0	10	
Molybdenum		750.0000	764.0000	ug/L	2	10	
Nickel		375.0000	387.0000	ug/L	3	10	
Selenium		375.0000	393.0000	ug/L	5	10	
Silver		75.00000	77.70000	ug/L	4	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	771.0000	ug/L	3	10	
Vanadium		375.0000	375.0000	ug/L	0	10	
Zinc		75.00000	76.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079109

Run Name :
Filename : tr212272

Injected : 01-AUG-2003 15:11
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	527.9000	ug/L	6	10	
Antimony		500.0000	468.0000	ug/L	-6	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	948.2000	ug/L	-5	10	
Chromium		100.0000	97.30000	ug/L	-3	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	503.1000	ug/L	1	10	
Lead		250.0000	265.0000	ug/L	6	10	
Magnesium		1000.000	1000.000	ug/L	0	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	259.0000	ug/L	4	10	
Silver		50.00000	49.40000	ug/L	-1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	499.0000	ug/L	0	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Sample Number: 73307079003
Sample Name: tr212166

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 01-AUG-2003 06:21

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[33.540]	100.0000	ug/L	<RL		
Antimony	[4.1100]	60.00000	ug/L	<RL		
Arsenic	[0.5980]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.9420]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[1.6380]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1590]	10.00000	ug/L	<RL		
Molybdenum	[1.7300]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.0000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.3900]	5.000000	ug/L	<RL		
Titanium	[0.9030]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Run Number: 73307079015
Sample Name: tr212178

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 07:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[24.800]	100.0000	ug/L	<RL		
Antimony	[10.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[10.030]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.5330]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.4280]	10.00000	ug/L	<RL		
Molybdenum	[3.6500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2100]	5.000000	ug/L	<RL		
Titanium	[0.6130]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.1780]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Run Number: 73307079027
Sample Name: tr212190

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 08:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[6.4300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1160]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[57.280]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.3300]		10.00000	ug/L	<	RL
Iron	[14.150]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[4.9880]		500.0000	ug/L	<	RL
Manganese	[0.4800]		10.00000	ug/L	<	RL
Molybdenum	[2.2900]		20.00000	ug/L	<	RL
Nickel	[0.3410]		20.00000	ug/L	<	RL
Selenium	[2.1400]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.5700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.4830]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Equation: 73307079039
Filename: tr212202

TJA Trace ICP
Run Name:
Blank Type: CCE

Injected: 01-AUG-2003 09:39

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[2.2190]	100.0000	ug/L	<RL		
Antimony	[2.7100]	60.00000	ug/L	<RL		
Arsenic	[0.8720]	5.000000	ug/L	<RL		
Barium	[0.0330]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0450]	5.000000	ug/L	<RL		
Calcium	[56.840]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1400]	10.00000	ug/L	<RL		
Iron	[13.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[12.470]	500.0000	ug/L	<RL		
Manganese	[0.5800]	10.00000	ug/L	<RL		
Molybdenum	[2.1100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.2500]	5.000000	ug/L	<RL		
Titanium	[1.1900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.4870]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Runnum: 73307079051
Filename: tr212214

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 10:39

analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[11.300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1670]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[63.450]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1300]	10.00000	ug/L	<RL	
Copper	[2.5800]	10.00000	ug/L	<RL	
Iron	[19.660]	100.0000	ug/L	<RL	
Lead	[0.9820]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.5340]	10.00000	ug/L	<RL	
Molybdenum	[5.7800]	20.00000	ug/L	<RL	
Nickel	[0.7750]	20.00000	ug/L	<RL	
Selenium	[2.8000]	5.000000	ug/L	<RL	
Silver	[0.1070]	5.000000	ug/L	<RL	
Thallium	[1.7600]	5.000000	ug/L	<RL	
Titanium	[2.2400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.8880]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Document: MET07
Sample: 73307079062
Name: tr212225

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 11:39

	Quant	Amt	RL	Units	Req	Flags
lyte	[2.2710]	100.0000	ug/L	<RL		
minum	[21.700]	60.00000	ug/L	<RL		
imony	[2.6400]	5.000000	ug/L	<RL		
enic	[0.0450]	10.00000	ug/L	<RL		
rium	ND	2.000000	ug/L	<RL		
ryllium	ND	5.000000	ug/L	<RL		
imium	ND	500.0000	ug/L	<RL		
lcium	ND	10.00000	ug/L	<RL		
romium	[0.0870]	10.00000	ug/L	<RL		
balt	[2.1700]	10.00000	ug/L	<RL		
pper	[14.020]	100.0000	ug/L	<RL		
on	ND	3.000000	ug/L	<RL		
ad	ND	500.0000	ug/L	<RL		
gnesium	[0.4760]	10.00000	ug/L	<RL		
nganese	[1.4600]	20.00000	ug/L	<RL		
lybdenum	[0.5200]	20.00000	ug/L	<RL		
ckel	ND	5.000000	ug/L	<RL		
elenium	ND	5.000000	ug/L	<RL		
ilver	[0.0320]	5.000000	ug/L	<RL		
mallium	ND	10.00000	ug/L	<RL		
itanium	ND	10.00000	ug/L	<RL		
anadium	[0.2500]	20.00000	ug/L	<RL		
inc						

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079074
Filename: tr212237

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[21.200]		60.00000	ug/L	<	RL
Arsenic	[0.0640]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.4450]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[4.2090]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[2.6400]		10.00000	ug/L	<	RL
Iron	[30.200]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.3840]		10.00000	ug/L	<	RL
Molybdenum	[3.8400]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[4.0300]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[2.8500]		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079086
Filename: tr212249

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 13:28

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[5.1740]	100.0000	ug/L	<RL		
Antimony	[8.7500]	60.00000	ug/L	<RL		
Arsenic	[1.4400]	5.000000	ug/L	<RL		
Barium	[0.1250]	10.00000	ug/L	<RL		
Beryllium	[0.4670]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[2.1900]	10.00000	ug/L	<RL		
Iron	[30.880]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.5560]	10.00000	ug/L	<RL		
Molybdenum	[8.8200]	20.00000	ug/L	<RL		
Nickel	[0.3250]	20.00000	ug/L	<RL		
Selenium	[1.8800]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.1500]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079098
Filename: tr212261

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 14:18

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[38.930]	100.0000	ug/L	<RL	
Antimony	[2.6700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2090]	10.00000	ug/L	<RL	
Beryllium	[0.8150]	2.000000	ug/L	<RL	
Cadmium	[0.0230]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[1.6000]	10.00000	ug/L	<RL	
Iron	[26.350]	100.0000	ug/L	<RL	
Lead	[0.0270]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.7100]	10.00000	ug/L	<RL	
Molybdenum	[9.7400]	20.00000	ug/L	<RL	
Nickel	[0.2370]	20.00000	ug/L	<RL	
Selenium	[3.2200]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.4200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73307079110
Filename: tr212273

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 01-AUG-2003 15:16

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[48.020]	100.0000	ug/L	<RL		
Antimony	[9.5300]	60.00000	ug/L	<RL		
Arsenic	[3.1100]	5.000000	ug/L	<RL		
Barium	[0.0680]	10.00000	ug/L	<RL		
Beryllium	[1.4200]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0300]	10.00000	ug/L	<RL		
Copper	[1.5000]	10.00000	ug/L	<RL		
Iron	[7.3690]	100.0000	ug/L	<RL		
Lead	[0.6040]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1110]	10.00000	ug/L	<RL		
Molybdenum	[5.9500]	20.00000	ug/L	<RL		
Nickel	[0.3630]	20.00000	ug/L	<RL		
Selenium	[2.9900]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

stdid : MET07
gnum : 73307079005

Run Name :
Filename : tr212168

Injected : 01-AUG-2003 06:32
Caltpe :

Standards: 03WS1089

anlyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500000.0	508600.0	ug/L	2	
Antimony	500.0000	557.0000	ug/L	11	20
Arsenic	500.0000	549.0000	ug/L	10	20
Barium	500.0000	505.0000	ug/L	1	20
Beryllium	500.0000	500.0000	ug/L	0	20
Cadmium	1000.000	987.0000	ug/L	-1	20
Calcium	500000.0	453100.0	ug/L	-9	
Chromium	500.0000	482.0000	ug/L	-4	20
Cobalt	500.0000	483.0000	ug/L	-3	20
Copper	500.0000	518.0000	ug/L	4	20
Iron	200000.0	187900.0	ug/L	-6	
Lead	1000.000	848.0000	ug/L	-15	20
Magnesium	500000.0	520300.0	ug/L	4	
Manganese	500.0000	484.0000	ug/L	-3	20
Molybdenum	500.0000	458.0000	ug/L	-8	20
Nickel	1000.000	1040.000	ug/L	4	20
Selenium	500.0000	499.0000	ug/L	0	20
Silver	1000.000	1040.000	ug/L	4	20
Thallium	500.0000	495.0000	ug/L	-1	20
Titanium	20000.00	2030.000	ug/L	-90	
Vanadium	500.0000	500.0000	ug/L	0	20
Zinc	1000.000	1030.000	ug/L	3	20

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

stid : MET07
qnum : 73307079060

Run Name :
Filename : tr212223

Injected : 01-AUG-2003 11:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Antimony	500000.0	541500.0	ug/L	8			
Aluminum	500.0000	546.0000	ug/L	9	20		
Antimony	500.0000	557.0000	ug/L	11	20		
Arsenic	500.0000	504.0000	ug/L	1	20		
Barium	500.0000	526.0000	ug/L	5	20		
Beryllium	500.0000	526.0000	ug/L	-3	20		
Cadmium	1000.000	973.0000	ug/L	-3			
Calcium	500000.0	471400.0	ug/L	-6			
Chromium	500.0000	489.0000	ug/L	-2	20		
Chromium	500.0000	486.0000	ug/L	-3	20		
Cobalt	500.0000	526.0000	ug/L	5	20		
Copper	500.0000	526.0000	ug/L	5	20		
Copper	200000.0	190300.0	ug/L	-5			
Iron	1000.000	1030.000	ug/L	3	20		
Lead	1000.000	1030.000	ug/L	3	20		
Lead	500000.0	545500.0	ug/L	9			
Magnesium	500.0000	503.0000	ug/L	1	20		
Manganese	500.0000	503.0000	ug/L	-5	20		
Manganese	500.0000	476.0000	ug/L	-5	20		
Molybdenum	500.0000	476.0000	ug/L	5	20		
Molybdenum	1000.000	1050.000	ug/L	5	20		
Nickel	1000.000	1050.000	ug/L	3	20		
Nickel	500.0000	516.0000	ug/L	3	20		
Selenium	500.0000	516.0000	ug/L	-11	20		
Selenium	1000.000	894.0000	ug/L	-3	20		
Silver	500.0000	485.0000	ug/L	-3	20		
Thallium	500.0000	485.0000	ug/L	-89			
Thallium	20000.00	2110.000	ug/L	2	20		
Titanium	500.0000	508.0000	ug/L	2	20		
Vanadium	500.0000	508.0000	ug/L	3	20		
Vanadium	1000.000	1030.000	ug/L	3	20		
Zinc	1000.000	1030.000	ug/L				

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079072

Run Name :
Filename : tr212235

Injected : 01-AUG-2003 12:23
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516600.0	ug/L	3		
Antimony	500.0000	525.0000	ug/L	5	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	507.0000	ug/L	1	20	
Beryllium	500.0000	516.0000	ug/L	3	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	474600.0	ug/L	-5		
Chromium	500.0000	492.0000	ug/L	-2	20	
Cobalt	500.0000	492.0000	ug/L	-2	20	
Copper	500.0000	522.0000	ug/L	4	20	
Iron	200000.0	191800.0	ug/L	-4		
Lead	1000.000	1100.000	ug/L	10	20	
Magnesium	500000.0	545300.0	ug/L	9		
Manganese	500.0000	501.0000	ug/L	0	20	
Molybdenum	500.0000	486.0000	ug/L	-3	20	
Nickel	1000.000	1060.000	ug/L	6	20	
Selenium	500.0000	550.0000	ug/L	10	20	
Silver	1000.000	1040.000	ug/L	4	20	
Thallium	500.0000	509.0000	ug/L	2	20	
Titanium	20000.00	2100.000	ug/L	-90		
Vanadium	500.0000	506.0000	ug/L	1	20	
Zinc	1000.000	1060.000	ug/L	6	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73307079108

Run Name :
Filename : tr212271

Injected : 01-AUG-2003 15:02
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	496000.0	ug/L	-1			
Antimony	500.0000	503.0000	ug/L	1	20		
Arsenic	500.0000	556.0000	ug/L	11	20		
Barium	500.0000	507.0000	ug/L	1	20		
Beryllium	500.0000	497.0000	ug/L	-1	20		
Cadmium	1000.000	986.0000	ug/L	-1	20		
Calcium	500000.0	450100.0	ug/L	-10			
Chromium	500.0000	477.0000	ug/L	-5	20		
Cobalt	500.0000	480.0000	ug/L	-4	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	185100.0	ug/L	-7			
Lead	1000.000	1080.000	ug/L	8	20		
Magnesium	500000.0	527300.0	ug/L	5			
Manganese	500.0000	480.0000	ug/L	-4	20		
Molybdenum	500.0000	485.0000	ug/L	-3	20		
Nickel	1000.000	1050.000	ug/L	5	20		
Selenium	500.0000	537.0000	ug/L	7	20		
Silver	1000.000	995.0000	ug/L	-1	20		
Thallium	500.0000	483.0000	ug/L	-3	20		
Titanium	20000.00	2060.000	ug/L	-90			
Vanadium	500.0000	496.0000	ug/L	-1	20		
Zinc	1000.000	1040.000	ug/L	4	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003 09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003 09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003 09:12	1.0	48.30918					3:FE=262700
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003 09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003 09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003 09:33	1.0	1.0				5	
039	tr212202	CCB				01-AUG-2003 09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003 09:49	1.0	50.0					2:FE=250500
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003 09:53	1.0	45.04505					3:FE=234100
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003 09:57	1.0	49.50495					2:FE=283000
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003 10:01	1.0	43.29004					2:FE=243700
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003 10:05	1.0	46.08295					2:FE=248000
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003 10:09	1.0	46.29630					4:FE=439200
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003 10:13	1.0	47.84689					4:CA=430200
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003 10:17	1.0	40.0					2:FE=409400
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003 10:20	1.0	49.26108					
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003 10:25	20.0	1.0			1		
050	tr212213	CCV				01-AUG-2003 10:35	1.0	1.0				5	
051	tr212214	CCB				01-AUG-2003 10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003 10:43	50.0	1.0					
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003 10:46	100.0	1.0			1		
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003 10:50	1.0	1.0			1		
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003 10:54	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003 10:57	1.0	1.0					
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003 11:00	1.0	1.0			1		
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003 11:04	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003 11:07	1.0	1.0					
060	tr212223	ICSB				01-AUG-2003 11:18	1.0	1.0				4	4:MG=545500
061	tr212224	CCV				01-AUG-2003 11:27	1.0	1.0				8	
062	tr212225	CCB				01-AUG-2003 11:39	1.0	1.0					
063	tr212226	BLANK	QC220926	83340	Water	01-AUG-2003 11:44	1.0	1.0			1		
064	tr212227	BS	QC220927	83340	Water	01-AUG-2003 11:50	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Mowdy Date: 8/1/03
Page 2 of 3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP

Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
065	tr212228	BSD	QC220928	83340	Water	01-AUG-2003 11:53	1.0	1.0					
066	tr212229	SAMPLE	166649-001	83340	Water	01-AUG-2003 11:57	1.0	1.0					
067	tr212230	SAMPLE	166649-010	83340	Water	01-AUG-2003 12:00	1.0	1.0	1				
068	tr212231	SAMPLE	166649-010	83340	Water	01-AUG-2003 12:05	1.0	1.0					
069	tr212232	BLANK	QC220909	83337	Soil	01-AUG-2003 12:09	1.0	50.0		1			
070	tr212233	BS	QC220910	83337	Soil	01-AUG-2003 12:16	1.0	50.0					
071	tr212234	BSD	QC220911	83337	Soil	01-AUG-2003 12:19	1.0	50.0					
072	tr212235	ICsAB				01-AUG-2003 12:23	1.0	1.0				4	4:MG=545300
073	tr212236	CCV				01-AUG-2003 12:30	1.0	1.0				5	
074	tr212237	CCB				01-AUG-2003 12:34	1.0	1.0					
075	tr212238	BS	QC220725	83290	Water	01-AUG-2003 12:38	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: McA Date: 8/15

Method: 6010B Standard: blank

Run Time: 08/04/03 06:50:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	-.000	-.092	.001	.000
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.07	16.5	18.7	8110.	.020	33.5	24.9
#1	-.001	.000	-.000	.000	-.092	.001	.000
#2	-.001	.001	-.000	-.000	-.092	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	-.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	12.6	10.3	55.7	2280.	153.	8370.	12.9
#1	-.000	-.003	.001	.001	.000	.000	-.002
#2	-.000	-.002	.000	-.001	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	-.000	-.001	.000	.005	.0263	-.0062
SDev	.001	.000	.000	.000	.000	.0002	.0000
%RSD	52.2	1040.	10.4	97.9	.084	.7541	.3132
#1	.002	.000	-.001	.000	.005	.0262	-.0062
#2	.001	-.000	-.001	.000	.005	.0265	-.0062
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.059			
SDev	.0001	.0000	.000	.000			
%RSD	16.43	56.63	19.1	.349			
#1	-.0007	.0000	.000	.059			
#2	-.0006	.0001	.000	.059			

Method: 6010B Standard: cst hi

Run Time: 08/04/03 06:55:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.151	.087	.035	5.43	.647	.210	.053
SDev	.007	.003	.000	.00	.001	.001	.000
%RSD	4.35	3.54	.014	.048	.208	.606	.213
#1	.146	.085	.035	5.43	.646	.209	.053
#2	.155	.089	.035	5.43	.648	.211	.053
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.141	.132	.157	.152	.271	.362	.036
SDev	.000	.001	.001	.001	.000	.000	.000
%RSD	.104	.420	.626	.815	.049	.100	.034
#1	.141	.132	.157	.153	.271	.362	.036
#2	.141	.132	.156	.151	.271	.362	.036
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.044	.052	.025	.210	.031	.0548	.0670
SDev	.001	.000	.000	.000	.000	.0002	.0001
%RSD	1.99	.043	.362	.011	.093	.3834	.1279
#1	.044	.052	.025	.210	.031	.0550	.0670
#2	.045	.052	.025	.210	.031	.0547	.0671
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0266	.0397	.230	2.02			
SDev	.0000	.0001	.000	.00			
%RSD	.1409	.1224	.134	.068			
#1	.0267	.0397	.230	2.02			
#2	.0266	.0397	.230	2.02			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6575.28	4.71201	08/04/03 06:55:50
Sb206A	206.832	Multiple	Standards	11305.7	-5.16161	08/04/03 06:55:50
As1890	189.042	Multiple	Standards	14066.3	3.95774	08/04/03 06:55:50
Ba4934	493.409	Multiple	Standards	184.120	.001006	08/04/03 06:55:50
Be3130	313.042	Multiple	Standards	130.744	12.0423	08/04/03 06:55:50
Cd2265	226.502	Multiple	Standards	477.528	-.471547	08/04/03 06:55:50
Cr2677	267.716	Multiple	Standards	3808.32	-.687286	08/04/03 06:55:50
Co2286	228.616	Multiple	Standards	3539.63	1.48445	08/04/03 06:55:50
Cu3247	324.754	Multiple	Standards	1487.47	3.57020	08/04/03 06:55:50
Pb2203	220.351	Multiple	Standards	3205.10	-1.85416	08/04/03 06:55:50
Pb220A	220.352	Multiple	Standards	3258.94	-.137305	08/04/03 06:55:50
Mo2020	202.030	Multiple	Standards	3688.05	-.489180	08/04/03 06:55:50
Ni2316	231.604	Multiple	Standards	1379.10	.007541	08/04/03 06:55:50
Se1960	196.021	Multiple	Standards	13137.2	26.8501	08/04/03 06:55:50
Se196A	196.022	Multiple	Standards	11595.6	-16.0011	08/04/03 06:55:50
Ag3280	328.068	Multiple	Standards	1904.75	.050741	08/04/03 06:55:50
Tl1908	190.864	Multiple	Standards	19746.6	15.6180	08/04/03 06:55:50
V_2924	292.402	Multiple	Standards	2384.85	-.493561	08/04/03 06:55:50
Zn2138	213.856	Multiple	Standards	3981.63	-19.4240	08/04/03 06:55:50
Al3082	308.215	Multiple	Standards	35526.8	-935.411	08/04/03 06:55:50
Ca3179	317.933	Multiple	Standards	27324.1	168.545	08/04/03 06:55:50
Fe2714	271.441	Multiple	Standards	38243.2	24.3598	08/04/03 06:55:50
Mg2790	279.079	Multiple	Standards	50420.6	-2.67705	08/04/03 06:55:50
Mn2576	257.610	Multiple	Standards	435.853	-.155027	08/04/03 06:55:50
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Ti3349	334.941	Multiple	Standards	510.969	-30.2761	08/04/03 06:55:50

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459002

Run Name :
Filename : tr212301

Injected : 04-AUG-2003 07:05
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.0000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	494.0000	ug/L	-1	5	
Barium	1000.000	994.0000	ug/L	-1	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2042.000	ug/L	2	5	
Chromium	200.0000	203.0000	ug/L	2	5	
Cobalt	500.0000	508.0000	ug/L	2	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1013.000	ug/L	1	5	
Lead	500.0000	505.0000	ug/L	1	5	
Magnesium	2000.000	2028.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	507.0000	ug/L	1	5	
Selenium	500.0000	507.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	504.0000	ug/L	1	5	
Zinc	100.0000	102.0000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459003

Run Name :
Filename : tr212303

Injected : 04-AUG-2003 07:28
Caltpe :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	481.6000	ug/L	-4		10	
Antimony	500.0000	512.0000	ug/L	2		10	
Arsenic	250.0000	257.0000	ug/L	3		10	
Barium	500.0000	480.0000	ug/L	-4		10	
Beryllium	50.00000	51.80000	ug/L	4		10	
Cadmium	50.00000	49.50000	ug/L	-1		10	
Calcium	1000.000	1011.000	ug/L	1		10	
Chromium	100.0000	100.0000	ug/L	0		10	
Cobalt	250.0000	251.0000	ug/L	0		10	
Copper	100.0000	101.0000	ug/L	1		10	
Iron	500.0000	497.9000	ug/L	0		10	
Lead	250.0000	248.0000	ug/L	-1		10	
Magnesium	1000.000	1031.000	ug/L	3		10	
Manganese	50.00000	49.70000	ug/L	-1		10	
Molybdenum	500.0000	496.0000	ug/L	-1		10	
Nickel	250.0000	254.0000	ug/L	2		10	
Selenium	250.0000	245.0000	ug/L	-2		10	
Silver	50.00000	48.80000	ug/L	-2		10	
Thallium	250.0000	241.0000	ug/L	-4		10	
Titanium	500.0000	505.0000	ug/L	1		10	
Vanadium	250.0000	247.0000	ug/L	-1		10	
Zinc	50.00000	51.00000	ug/L	2		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459005

Run Name :
Filename : tr212305

Injected : 04-AUG-2003 07:56
Caltpe :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	90.73000	ug/L	-9	50	
Antimony	60.00000	73.70000	ug/L	23	50	
Arsenic	5.000000	3.070000	ug/L	-39	50	
Barium	10.00000	9.440000	ug/L	-6	50	
Beryllium	2.000000	1.710000	ug/L	-15	50	
Cadmium	5.000000	4.690000	ug/L	-6	50	
Chromium	10.00000	9.310000	ug/L	-7	50	
Cobalt	20.00000	19.40000	ug/L	-3	50	
Copper	10.00000	9.790000	ug/L	-2	50	
Iron	100.0000	95.50000	ug/L	-5	50	
Lead	3.000000	1.770000	ug/L	-41	50	
Manganese	10.00000	9.650000	ug/L	-4	50	
Molybdenum	20.00000	19.00000	ug/L	-5	50	
Nickel	20.00000	19.90000	ug/L	-1	50	
Selenium	5.000000	4.440000	ug/L	-11	50	
Silver	5.000000	4.480000	ug/L	-10	50	
Thallium	5.000000	3.170000	ug/L	-37	50	
Vanadium	10.00000	9.570000	ug/L	-4	50	
Zinc	20.00000	21.40000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459015

Run Name :
Filename : tr212315

Injected : 04-AUG-2003 08:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	475.4000	ug/L	-5	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	466.0000	ug/L	-7	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	98.50000	ug/L	-2	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	98.20000	ug/L	-2	10	
Iron		500.0000	526.5000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1015.000	ug/L	2	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	47.80000	ug/L	-4	10	
Thallium		250.0000	241.0000	ug/L	-4	10	
Titanium		500.0000	492.0000	ug/L	-2	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459027

Run Name :
Filename : tr212327

Injected : 04-AUG-2003 09:39
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.5000	ug/L	-5	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	467.0000	ug/L	-7	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	986.9000	ug/L	-1	10	
Chromium		100.0000	97.60000	ug/L	-2	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	97.10000	ug/L	-3	10	
Iron		500.0000	504.6000	ug/L	1	10	
Lead		250.0000	244.0000	ug/L	-2	10	
Magnesium		1000.000	1004.000	ug/L	0	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459039

Run Name :
Filename : tr212339

Injected : 04-AUG-2003 10:40
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	731.6000	ug/L	-2		10	
Antimony		750.0000	767.0000	ug/L	2		10	
Arsenic		375.0000	381.0000	ug/L	2		10	
Barium		750.0000	735.0000	ug/L	-2		10	
Beryllium		75.00000	76.10000	ug/L	1		10	
Cadmium		75.00000	72.60000	ug/L	-3		10	
Calcium		1500.000	1475.000	ug/L	-2		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	369.0000	ug/L	-2		10	
Copper		150.0000	153.0000	ug/L	2		10	
Iron		750.0000	731.6000	ug/L	-2		10	
Lead		375.0000	359.0000	ug/L	-4		10	
Magnesium		1500.000	1503.000	ug/L	0		10	
Manganese		75.00000	73.40000	ug/L	-2		10	
Molybdenum		750.0000	721.0000	ug/L	-4		10	
Nickel		375.0000	376.0000	ug/L	0		10	
Selenium		375.0000	360.0000	ug/L	-4		10	
Silver		75.00000	70.30000	ug/L	-6		10	
Thallium		375.0000	358.0000	ug/L	-5		10	
Titanium		750.0000	747.0000	ug/L	0		10	
Vanadium		375.0000	369.0000	ug/L	-2		10	
Zinc		75.00000	73.60000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459049

Run Name :
Filename : tr212349

Injected : 04-AUG-2003 12:24
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	489.4000	ug/L	-2		10	
Antimony		500.0000	532.0000	ug/L	6		10	
Arsenic		250.0000	254.0000	ug/L	2		10	
Barium		500.0000	490.0000	ug/L	-2		10	
Beryllium		50.00000	50.80000	ug/L	2		10	
Cadmium		50.00000	48.80000	ug/L	-2		10	
Calcium		1000.000	989.9000	ug/L	-1		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	492.2000	ug/L	-2		10	
Lead		250.0000	249.0000	ug/L	0		10	
Magnesium		1000.000	1006.000	ug/L	1		10	
Manganese		50.00000	49.40000	ug/L	-1		10	
Molybdenum		500.0000	498.0000	ug/L	0		10	
Nickel		250.0000	249.0000	ug/L	0		10	
Selenium		250.0000	245.0000	ug/L	-2		10	
Silver		50.00000	52.40000	ug/L	5		10	
Thallium		250.0000	243.0000	ug/L	-3		10	
Titanium		500.0000	506.0000	ug/L	1		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	51.50000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459059

Run Name :
Filename : tr212359

Injected : 04-AUG-2003 13:20
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	724.7000	ug/L	-3	10	
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	76.80000	ug/L	2	10	
Cadmium		75.00000	76.00000	ug/L	1	10	
Calcium		1500.000	1455.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	735.3000	ug/L	-2	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1527.000	ug/L	2	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	384.0000	ug/L	2	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	71.00000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	750.0000	ug/L	0	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	74.50000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd- : MET07
Seqnum : 73311459071

Run Name :
Filename : tr212371

Injected : 04-AUG-2003 14:09
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	499.8000	ug/L	0	10	
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	51.30000	ug/L	3	10	
Calcium		1000.000	959.4000	ug/L	-4	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	531.5000	ug/L	6	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1020.000	ug/L	2	10	
Manganese		50.00000	48.50000	ug/L	-3	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	48.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459084

Run Name :
Filename : tr212384

Injected : 04-AUG-2003 15:02
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	766.7000	ug/L	2		10	
Antimony		750.0000	737.0000	ug/L	-2		10	
Arsenic		375.0000	382.0000	ug/L	2		10	
Barium		750.0000	738.0000	ug/L	-2		10	
Beryllium		75.00000	77.40000	ug/L	3		10	
Cadmium		75.00000	73.80000	ug/L	-2		10	
Calcium		1500.000	1497.000	ug/L	0		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	372.0000	ug/L	-1		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	791.5000	ug/L	6		10	
Lead		375.0000	373.0000	ug/L	-1		10	
Magnesium		1500.000	1524.000	ug/L	2		10	
Manganese		75.00000	75.00000	ug/L	0		10	
Molybdenum		750.0000	741.0000	ug/L	-1		10	
Nickel		375.0000	378.0000	ug/L	1		10	
Selenium		375.0000	377.0000	ug/L	1		10	
Silver		75.00000	74.30000	ug/L	-1		10	
Thallium		375.0000	365.0000	ug/L	-3		10	
Titanium		750.0000	755.0000	ug/L	1		10	
Vanadium		375.0000	371.0000	ug/L	-1		10	
Zinc		75.00000	73.60000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459096

Run Name :
Filename : tr212396

Injected : 04-AUG-2003 15:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	508.1000	ug/L	2	10	
Antimony		500.0000	474.0000	ug/L	-5	10	
Arsenic		250.0000	266.0000	ug/L	6	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	52.80000	ug/L	6	10	
Cadmium		50.00000	52.20000	ug/L	4	10	
Calcium		1000.000	1016.000	ug/L	2	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	536.1000	ug/L	7	10	
Lead		250.0000	259.0000	ug/L	4	10	
Magnesium		1000.000	1051.000	ug/L	5	10	
Manganese		50.00000	50.50000	ug/L	1	10	
Molybdenum		500.0000	507.0000	ug/L	1	10	
Nickel		250.0000	263.0000	ug/L	5	10	
Selenium		250.0000	254.0000	ug/L	2	10	
Silver		50.00000	54.40000	ug/L	9	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.10000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459106

Run Name :
Filename : tr212406

Injected : 04-AUG-2003 16:33
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.7000	ug/L	-4	10	
Antimony		750.0000	738.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	76.60000	ug/L	2	10	
Cadmium		75.00000	77.10000	ug/L	3	10	
Calcium		1500.000	1432.000	ug/L	-5	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	745.7000	ug/L	-1	10	
Lead		375.0000	370.0000	ug/L	-1	10	
Magnesium		1500.000	1504.000	ug/L	0	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	732.0000	ug/L	-2	10	
Nickel		375.0000	386.0000	ug/L	3	10	
Selenium		375.0000	384.0000	ug/L	2	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	377.0000	ug/L	1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.00000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459004
Filename: tr212304

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 04-AUG-2003 07:40

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[18.900]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1320]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.1540]	5.000000	ug/L	<	RL
Calcium	[6.5010]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.7990]	10.00000	ug/L	<	RL
Copper	[0.0770]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.0140]	10.00000	ug/L	<	RL
Molybdenum	[2.6200]	20.00000	ug/L	<	RL
Nickel	[0.1110]	20.00000	ug/L	<	RL
Selenium	[1.4100]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[4.5700]	5.000000	ug/L	<	RL
Titanium	[2.5300]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.3800]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459016
Filename: tr212316

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 08:48

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[0.6890]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2450]		10.00000	ug/L	<	RL
Beryllium	[0.1140]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[13.080]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.7260]		10.00000	ug/L	<	RL
Copper	[0.4270]		10.00000	ug/L	<	RL
Iron	[16.100]		100.0000	ug/L	<	RL
Lead	[0.6970]		3.000000	ug/L	<	RL
Magnesium	[4.5340]		500.0000	ug/L	<	RL
Manganese	[0.2210]		10.00000	ug/L	<	RL
Molybdenum	[4.5600]		20.00000	ug/L	<	RL
Nickel	[0.0790]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[3.7700]		5.000000	ug/L	<	RL
Titanium	[3.3300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.4200]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459028
Filename: tr212328

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 09:44

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[2.0000]		60.00000	ug/L	<	RL
Arsenic	[1.0100]		5.000000	ug/L	<	RL
Barium	[0.2220]		10.00000	ug/L	<	RL
Beryllium	[0.4260]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[3.3630]		500.0000	ug/L	<	RL
Chromium	[0.1850]		10.00000	ug/L	<	RL
Cobalt	[1.1600]		10.00000	ug/L	<	RL
Copper	[0.2440]		10.00000	ug/L	<	RL
Iron	[19.780]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[2.4620]		500.0000	ug/L	<	RL
Manganese	[0.1600]		10.00000	ug/L	<	RL
Molybdenum	[4.6400]		20.00000	ug/L	<	RL
Nickel	[0.2360]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.8600]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.2600]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459040
Filename: tr212340

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 10:48

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[15.300]		60.00000	ug/L	<	RL
Arsenic	[0.1150]		5.000000	ug/L	<	RL
Barium	[0.3940]		10.00000	ug/L	<	RL
Beryllium	[0.5610]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.0450]		10.00000	ug/L	<	RL
Cobalt	[1.3000]		10.00000	ug/L	<	RL
Copper	[0.3000]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.3700]		3.000000	ug/L	<	RL
Magnesium	[3.4980]		500.0000	ug/L	<	RL
Manganese	[0.0870]		10.00000	ug/L	<	RL
Molybdenum	[9.1800]		20.00000	ug/L	<	RL
Nickel	[0.2130]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[1.1700]		5.000000	ug/L	<	RL
Titanium	[3.0800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.0300]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459050
Filename: tr212350

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	[14.300]	60.00000		ug/L	<	RL
Arsenic	[1.6900]	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	[0.0320]	2.000000		ug/L	<	RL
Cadmium	[0.1000]	5.000000		ug/L	<	RL
Calcium	ND	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	[0.0320]	10.00000		ug/L	<	RL
Copper	[0.2060]	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[1.5240]	500.0000		ug/L	<	RL
Manganese	[0.0500]	10.00000		ug/L	<	RL
Molybdenum	ND	20.00000		ug/L	<	RL
Nickel	[0.0990]	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	[0.0740]	5.000000		ug/L	<	RL
Thallium	[2.0800]	5.000000		ug/L	<	RL
Titanium	ND	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459060
Filename: tr212360

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 13:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[8.0260]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.3800]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.6650]	2.000000	ug/L	<RL		
Cadmium	[0.1090]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[2.3680]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[2.9320]	500.0000	ug/L	<RL		
Manganese	[0.0310]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.4870]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.9460]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459072
Filename: tr212372

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 14:13

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[22.060]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.7600]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.1300]	2.000000	ug/L	<RL	
Cadmium	[0.1780]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2680]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[18.400]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.8040]	500.0000	ug/L	<RL	
Manganese	[0.3690]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.0030]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.0300]	5.000000	ug/L	<RL	
Titanium	[0.6900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459085
Filename: tr212385

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:09

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[22.680]	100.0000	ug/L	<RL		
Antimony	[30.300]	60.00000	ug/L	<RL		
Arsenic	[3.1000]	5.000000	ug/L	<RL		
Barium	[0.0370]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1690]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.1670]	10.00000	ug/L	<RL		
Cobalt	[0.1940]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[18.030]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[5.8400]	500.0000	ug/L	<RL		
Manganese	[0.3290]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.2890]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.1770]	5.000000	ug/L	<RL		
Thallium	[0.5390]	5.000000	ug/L	<RL		
Titanium	[0.5030]	10.00000	ug/L	<RL		
Vanadium	[0.2170]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459097
Filename: tr212397

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:59

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[23.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.3640]	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0010]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[12.970]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.6230]	500.0000	ug/L	<RL	
Manganese	[0.2030]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0950]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.7700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459107
Filename: tr212407

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 16:38

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[27.280]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.9110]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.8790]	2.000000	ug/L	<RL		
Cadmium	[0.0970]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[16.130]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[4.9880]	500.0000	ug/L	<RL		
Manganese	[0.2140]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.2000]	5.000000	ug/L	<RL		
Titanium	[0.4000]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459006

Run Name :
Filename : tr212306

Injected : 04-AUG-2003 08:00
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	514600.0	ug/L	3			
Antimony	500.0000	513.0000	ug/L	3	20		
Arsenic	500.0000	542.0000	ug/L	8	20		
Barium	500.0000	481.0000	ug/L	-4	20		
Beryllium	500.0000	512.0000	ug/L	2	20		
Cadmium	1000.000	971.0000	ug/L	-3	20		
Calcium	500000.0	464500.0	ug/L	-7			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	480.0000	ug/L	-4	20		
Copper	500.0000	505.0000	ug/L	1	20		
Iron	200000.0	185600.0	ug/L	-7			
Lead	1000.000	994.0000	ug/L	-1	20		
Magnesium	500000.0	519400.0	ug/L	4			
Manganese	500.0000	484.0000	ug/L	-3	20		
Molybdenum	500.0000	461.0000	ug/L	-8	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	521.0000	ug/L	4	20		
Silver	1000.000	1020.000	ug/L	2	20		
Thallium	500.0000	467.0000	ug/L	-7	20		
Titanium	20000.00	1990.000	ug/L	-90			
Vanadium	500.0000	487.0000	ug/L	-3	20		
Zinc	1000.000	1020.000	ug/L	2	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459074

Run Name :
Filename : tr212374

Injected : 04-AUG-2003 14:21
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	431200.0	ug/L	-14			
Antimony	500.0000	439.0000	ug/L	-12		20	
Arsenic	500.0000	504.0000	ug/L	1		20	
Barium	500.0000	445.0000	ug/L	-11		20	
Beryllium	500.0000	430.0000	ug/L	-14		20	
Cadmium	1000.000	871.0000	ug/L	-13		20	
Calcium	500000.0	353200.0	ug/L	-29			
Chromium	500.0000	414.0000	ug/L	-17		20	
Cobalt	500.0000	413.0000	ug/L	-17		20	
Copper	500.0000	454.0000	ug/L	-9		20	
Iron	200000.0	159800.0	ug/L	-20			
Lead	1000.000	903.0000	ug/L	-10		20	
Magnesium	500000.0	456200.0	ug/L	-9			
Manganese	500.0000	406.0000	ug/L	-19		20	
Molybdenum	500.0000	421.0000	ug/L	-16		20	
Nickel	1000.000	909.0000	ug/L	-9		20	
Selenium	500.0000	479.0000	ug/L	-4		20	
Silver	1000.000	963.0000	ug/L	-4		20	
Thallium	500.0000	432.0000	ug/L	-14		20	
Titanium	20000.00	1780.000	ug/L	-91			
Vanadium	500.0000	423.0000	ug/L	-15		20	
Zinc	1000.000	924.0000	ug/L	-8		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459108

Run Name :
Filename : tr212408

Injected : 04-AUG-2003 16:41
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	420700.0	ug/L	-16			
Antimony	500.0000	435.0000	ug/L	-13		20	
Arsenic	500.0000	502.0000	ug/L	0		20	
Barium	500.0000	444.0000	ug/L	-11		20	
Beryllium	500.0000	430.0000	ug/L	-14		20	
Cadmium	1000.000	870.0000	ug/L	-13		20	
Calcium	500000.0	352400.0	ug/L	-30			
Chromium	500.0000	413.0000	ug/L	-17		20	
Cobalt	500.0000	414.0000	ug/L	-17		20	
Copper	500.0000	459.0000	ug/L	-8		20	
Iron	200000.0	154800.0	ug/L	-23			
Lead	1000.000	901.0000	ug/L	-10		20	
Magnesium	500000.0	450500.0	ug/L	-10			
Manganese	500.0000	409.0000	ug/L	-18		20	
Molybdenum	500.0000	419.0000	ug/L	-16		20	
Nickel	1000.000	904.0000	ug/L	-10		20	
Selenium	500.0000	478.0000	ug/L	-4		20	
Silver	1000.000	994.0000	ug/L	-1		20	
Thallium	500.0000	439.0000	ug/L	-12		20	
Titanium	20000.00	1770.000	ug/L	-91			
Vanadium	500.0000	426.0000	ug/L	-15		20	
Zinc	1000.000	953.0000	ug/L	-5		20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr212300	X				04-AUG-2003	06:59	1.0				1		
002	tr212301	CS				04-AUG-2003	07:05	1.0				1		
003	tr212303	ICV				04-AUG-2003	07:28	1.0				2		
004	tr212304	ICB				04-AUG-2003	07:40	1.0						
005	tr212305	CRI				04-AUG-2003	07:56	1.0				3		
006	tr212306	ICSAB				04-AUG-2003	08:00	1.0				4		4:MG=519400
007	tr212307	BLANK	QC221106	83386	Soil	04-AUG-2003	08:04	1.0						
008	tr212308	BS	QC221107	83386	Soil	04-AUG-2003	08:09	1.0						
009	tr212309	BSD	QC221108	83386	Soil	04-AUG-2003	08:12	1.0						
010	tr212310	MSS	166674-002	83386	Soil	04-AUG-2003	08:18	1.0						2:FE=270700
011	tr212311	SER	QC221111	83386	Soil	04-AUG-2003	08:22	5.0						
012	tr212312	MS	QC221109	83386	Soil	04-AUG-2003	08:26	1.0						2:FE=264300
013	tr212313	MSD	QC221110	83386	Soil	04-AUG-2003	08:30	1.0						2:FE=331500
014	tr212314	SAMPLE	166674-003	83386	Soil	04-AUG-2003	08:35	1.0						2:FE=224400
015	tr212315	CCV				04-AUG-2003	08:44	1.0				5		
016	tr212316	CCB				04-AUG-2003	08:48	1.0						
017	tr212317	SAMPLE	166674-004	83386	Soil	04-AUG-2003	08:52	1.0						2:FE=274600
018	tr212318	SAMPLE	166674-005	83386	Soil	04-AUG-2003	08:56	1.0						2:FE=252700
019	tr212319	SAMPLE	166674-006	83386	Soil	04-AUG-2003	09:00	1.0						2:FE=245100
020	tr212320	SAMPLE	166674-007	83386	Soil	04-AUG-2003	09:04	1.0						3:FE=399000
021	tr212321	SAMPLE	166674-008	83386	Soil	04-AUG-2003	09:08	1.0						2:FE=357600
022	tr212322	SAMPLE	166674-009	83386	Soil	04-AUG-2003	09:12	1.0						2:FE=394900
023	tr212323	SAMPLE	166674-010	83386	Soil	04-AUG-2003	09:16	1.0						3:FE=590900
024	tr212324	SAMPLE	166674-011	83386	Soil	04-AUG-2003	09:20	1.0						3:FE=471500
025	tr212325	SAMPLE	166674-012	83386	Soil	04-AUG-2003	09:23	1.0						3:FE=500600
026	tr212326	SAMPLE	166674-013	83386	Soil	04-AUG-2003	09:27	1.0						3:FE=379400
027	tr212327	CCV				04-AUG-2003	09:39	1.0				5		
028	tr212328	CCB				04-AUG-2003	09:44	1.0						
029	tr212329	PDS	QC221144	83386	Soil	04-AUG-2003	09:48	1.0				6		2:FE=279400
030	tr212330	SAMPLE	166674-014	83386	Soil	04-AUG-2003	09:52	1.0						3:FE=496500
031	tr212331	SAMPLE	166674-015	83386	Soil	04-AUG-2003	09:56	1.0						2:FE=284200
032	tr212332	SAMPLE	166674-016	83386	Soil	04-AUG-2003	10:00	1.0						2:FE=396200

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Nei WY Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr212333	SAMPLE	166674-017	83386	Soil	04-AUG-2003 10:04	1.0	45.04505						2:FE=436000
034	tr212334	SAMPLE	166674-018	83386	Soil	04-AUG-2003 10:08	1.0	47.39336						2:FE=374300
035	tr212335	SAMPLE	166674-019	83386	Soil	04-AUG-2003 10:12	1.0	37.03704						3:FE=512100
036	tr212336	BLANK	QC221112	83387	Soil	04-AUG-2003 10:20	1.0	50.0						
037	tr212337	BS	QC221113	83387	Soil	04-AUG-2003 10:24	1.0	50.0						
038	tr212338	BSD	QC221114	83387	Soil	04-AUG-2003 10:32	1.0	50.0						
039	tr212339	CCV				04-AUG-2003 10:40	1.0	1.0				8		
040	tr212340	CCB				04-AUG-2003 10:48	1.0	1.0						
041	tr212341	MSS	166624-011	83387	Soil	04-AUG-2003 10:53	1.0	46.08295	2					2:FE=159400
042	tr212342	SER	QC221117	83387	Soil	04-AUG-2003 10:58	5.0	46.08295	1					
043	tr212343	SER	QC221117	83387	Soil	04-AUG-2003 11:02	5.0	46.08295						
044	tr212344	MS	QC221115	83387	Soil	04-AUG-2003 11:09	1.0	48.54369						2:FE=168500
045	tr212345	MSD	QC221116	83387	Soil	04-AUG-2003 11:12	1.0	42.73504						2:FE=198200
046	tr212346	SAMPLE	166663-001	83387	Soil	04-AUG-2003 11:16	1.0	43.29004						
047	tr212347	SAMPLE	166663-002	83387	Soil	04-AUG-2003 11:19	1.0	46.94836						
048	tr212348	SAMPLE	166663-003	83387	Soil	04-AUG-2003 11:23	1.0	42.37288						1:AL=114400
049	tr212349	CCV				04-AUG-2003 12:24	1.0	1.0				5		
050	tr212350	CCB				04-AUG-2003 12:34	1.0	1.0						
051	tr212351	MSS	166624-011	83387	Soil	04-AUG-2003 12:40	10.0	46.08295	1					
052	tr212352	SER	QC221117	83387	Soil	04-AUG-2003 12:44	50.0	46.08295						
053	tr212353	SAMPLE	166663-004	83387	Soil	04-AUG-2003 12:47	10.0	47.39336						
054	tr212354	SAMPLE	166663-005	83387	Soil	04-AUG-2003 12:51	10.0	48.30918						
055	tr212355	SAMPLE	166663-006	83387	Soil	04-AUG-2003 12:54	10.0	43.66812						
056	tr212356	BLANK	QC221090	83380	Water	04-AUG-2003 13:01	1.0	1.0						
057	tr212357	BS	QC221091	83380	Water	04-AUG-2003 13:07	1.0	1.0						
058	tr212358	BSD	QC221092	83380	Water	04-AUG-2003 13:17	1.0	1.0						
059	tr212359	CCV				04-AUG-2003 13:20	1.0	1.0				8		
060	tr212360	CCB				04-AUG-2003 13:26	1.0	1.0						
061	tr212361	MSS	166624-010	83380	Water	04-AUG-2003 13:30	1.0	1.0						
062	tr212362	MS	QC221093	83380	Water	04-AUG-2003 13:34	1.0	1.0						
063	tr212363	MSD	QC221094	83380	Water	04-AUG-2003 13:38	1.0	1.0						
064	tr212364	SAMPLE	166674-001	83380	Water	04-AUG-2003 13:41	1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: M. W. W. Date: 8/14/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212365 SAMPLE	166674-020	83380	Water	04-AUG-2003 13:45	1.0	1.0						
066	tr212366 BLANK	QC220915	83339	Soil	04-AUG-2003 13:48	1.0	50.0	2					
067	tr212367 BS	QC220916	83339	Soil	04-AUG-2003 13:52	1.0	50.0						
068	tr212368 BSD	QC220917	83339	Soil	04-AUG-2003 13:55	1.0	50.0						
069	tr212369 MSS	166599-003	83339	Soil	04-AUG-2003 13:59	1.0	47.84689	2					2:FE=244600
070	tr212370 MS	QC220918	83339	Soil	04-AUG-2003 14:02	1.0	48.30918						2:FE=245700
071	tr212371 CCV				04-AUG-2003 14:09	1.0	1.0				5		
072	tr212372 CCB				04-AUG-2003 14:13	1.0	1.0						
073	tr212373 BLANK				04-AUG-2003 14:17	1.0	50.0						
074	tr212374 ICSAB	QC220915	83339	Soil	04-AUG-2003 14:21	1.0	1.0				4		4:MG=456200
075	tr212375 SER	QC220920	83339	Soil	04-AUG-2003 14:25	5.0	47.84689						
076	tr212376 MSD	QC220919	83339	Soil	04-AUG-2003 14:32	1.0	49.01961						2:FE=247800
077	tr212377 MSS	166599-004	83339	Soil	04-AUG-2003 14:35	1.0	49.01961	2					2:FE=240600
078	tr212378 MS	QC220921	83339	Soil	04-AUG-2003 14:39	1.0	43.29004						3:FE=285800
079	tr212379 MSD	QC220922	83339	Soil	04-AUG-2003 14:42	1.0	45.87156	1					2:FE=270900
080	tr212380 SAMPLE	166599-001	83339	Soil	04-AUG-2003 14:46	1.0	48.54369	1					3:FE=374500
081	tr212381 SAMPLE	166599-002	83339	Soil	04-AUG-2003 14:49	1.0	48.78049						2:FE=237300
082	tr212382 SAMPLE	166599-005	83339	Soil	04-AUG-2003 14:53	1.0	44.24779						3:FE=434300
083	tr212383 SAMPLE	166599-006	83339	Soil	04-AUG-2003 14:56	1.0	45.87156						4:FE=409500
084	tr212384 CCV				04-AUG-2003 15:02	1.0	1.0				8		
085	tr212385 CCB				04-AUG-2003 15:09	1.0	1.0						
086	tr212386 SAMPLE	166599-008	83339	Soil	04-AUG-2003 15:16	1.0	48.54369						1:FE=152100
087	tr212387 SAMPLE	166599-009	83339	Soil	04-AUG-2003 15:19	1.0	47.84689						1:FE=162400
088	tr212388 SAMPLE	166599-010	83339	Soil	04-AUG-2003 15:23	1.0	46.08295						1:FE=166100
089	tr212389 SAMPLE	166599-011	83339	Soil	04-AUG-2003 15:26	1.0	46.51163						1:FE=178800
090	tr212390 SAMPLE	166599-012	83339	Soil	04-AUG-2003 15:30	1.0	43.85965						1:FE=152200
091	tr212391 SAMPLE	166599-015	83339	Soil	04-AUG-2003 15:33	1.0	40.65041						1:FE=171400
092	tr212392 SAMPLE	166599-016	83339	Soil	04-AUG-2003 15:38	1.0	49.01961						1:FE=154100
093	tr212393 SAMPLE	166599-017	83339	Soil	04-AUG-2003 15:42	1.0	49.50495						1:FE=164700
094	tr212394 SAMPLE	166599-018	83339	Soil	04-AUG-2003 15:45	1.0	49.26108						1:FE=146100
095	tr212395 SAMPLE	166599-019	83339	Soil	04-AUG-2003 15:48	1.0	46.51163						2:FE=182400
096	tr212396 CCV				04-AUG-2003 15:56	1.0	1.0				5		

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: John W. Date:

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix Analyzed	IDF	PDF	IOC SPK uL	Stdts Used	>LR
097	tr212397 CCB			04-AUG-2003 15:59	1.0	1.0			
098	tr212398 SAMPLE	166599-020	83339	Soil	04-AUG-2003 16:03	1.0	49.26108		2:FE=192600
099	tr212399 SAMPLE	166599-021	83339	Soil	04-AUG-2003 16:07	1.0	46.72897		1:FE=156900
100	tr212400 SAMPLE	166599-022	83339	Soil	04-AUG-2003 16:10	1.0	41.8410		2:FE=197600
101	tr212401 SAMPLE	166599-023	83339	Soil	04-AUG-2003 16:14	1.0	46.51163		2:FE=193500
102	tr212402 SAMPLE	166624-020	83387	Soil	04-AUG-2003 16:17	1.0	48.07692	1	1:FE=128000
103	tr212403 SAMPLE	166624-022	83387	Soil	04-AUG-2003 16:21	1.0	43.29004	1	1:FE=128800
104	tr212404 SAMPLE	166624-037	83387	Soil	04-AUG-2003 16:24	1.0	44.84305	1	1:FE=193300
105	tr212405 SAMPLE	166599-001	83339	Soil	04-AUG-2003 16:29	10.0	48.54369		
106	tr212406 CCV			04-AUG-2003 16:33	1.0	1.0		8	
107	tr212407 CCB			04-AUG-2003 16:38	1.0	1.0			
108	tr212408 ICSAB			04-AUG-2003 16:41	1.0	1.0		4	4:MG=450500
109	tr212409 SAMPLE	166624-038	83387	Soil	04-AUG-2003 16:45	1.0	41.49378	1	1:FE=396500

Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Verly Date: 8/4/03
Page 4 of 4

REPORTING SUMMARY FOR 166599 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
166599-001	MET07	08/04/03 14:46	1.0		+		+					+	+									
166599-001	MET07	08/04/03 16:29	10.0																			+
166599-002	MET07	08/04/03 14:49	1.0		+		+					+	+									+
166599-003	MET07	08/04/03 13:59	1.0		+		+					+	+									+
166599-004	MET07	08/04/03 14:35	1.0		+		+					+	+									+
166599-005	MET07	08/04/03 14:53	1.0		+		+					+	+									+
166599-006	MET07	08/04/03 14:56	1.0		+		+					+	+									+
166599-007	MET07	08/01/03 12:47	1.0		+		+					+	+									+
166599-007	MET07	08/01/03 12:51	1.0																			
166599-007	MET07	08/01/03 12:54	10.0																			
166599-008	MET07	08/04/03 15:16	1.0		+		+					+	+									+
166599-009	MET07	08/04/03 15:19	1.0		+		+					+	+									+
166599-010	MET07	08/04/03 15:23	1.0		+		+					+	+									+
166599-011	MET07	08/04/03 15:26	1.0		+		+					+	+									+
166599-012	MET07	08/04/03 15:30	1.0		+		+					+	+									+
166599-013	MET07	08/01/03 06:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166599-013	MET07	08/01/03 07:01	1.0															+				
166599-013	MET07	08/01/03 07:14	5.0										+									
166599-015	MET07	08/04/03 15:33	1.0		+		+					+	+									+
166599-016	MET07	08/04/03 15:38	1.0		+		+					+	+									+
166599-017	MET07	08/04/03 15:42	1.0		+		+					+	+									+
166599-018	MET07	08/04/03 15:45	1.0		+		+					+	+									+
166599-019	MET07	08/04/03 15:48	1.0		+		+					+	+									+
166599-020	MET07	08/04/03 16:03	1.0		+		+					+	+									+
166599-021	MET07	08/04/03 16:07	1.0		+		+					+	+									+
166599-022	MET07	08/04/03 16:10	1.0		+		+					+	+									+
166599-023	MET07	08/04/03 16:14	1.0		+		+					+	+									+
166599-024	MET07	08/01/03 07:49	1.0	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166599-024	MET07	08/01/03 08:05	1.0		+	+																
166599-024	MET07	08/01/03 08:43	10.0										+									
166599-025	MET07	08/01/03 07:53	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166599 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166599-025	MET07	08/01/03 08:47	10.0	+									+									
166599-026	MET07	08/01/03 07:57	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166599-026	MET07	08/01/03 08:51	10.0	+									+									
166599-027	MET07	08/01/03 08:01	1.0		+		+	+	+	+	+	+		+	+	+	+		+	+	+	+
166599-027	MET07	08/01/03 08:09	1.0			+												+				
166599-027	MET07	08/01/03 08:55	10.0	+									+									
166599-028	MET07	08/01/03 13:45	1.0		+		+					+		+								+
166599-029	MET07	08/01/03 13:48	1.0		+		+					+		+								+
166599-030	MET07	08/01/03 13:52	1.0		+		+					+		+								+
166599-031	MET07	08/01/03 13:55	1.0		+		+					+		+								+
166599-032	MET07	08/01/03 13:59	1.0		+		+					+		+								+
166599-033	MET07	08/01/03 14:02	1.0		+		+					+		+								+
QC220909	MET07	08/01/03 12:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220909	MET07	08/01/03 15:55	1.0																	+		
QC220910	MET07	08/01/03 12:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220911	MET07	08/01/03 12:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220912	MET07	08/01/03 13:10	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC220912	MET07	08/01/03 14:33	10.0												+							
QC220913	MET07	08/01/03 13:14	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC220913	MET07	08/01/03 14:37	10.0												+							
QC220914	MET07	08/01/03 12:59	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220914	MET07	08/01/03 13:02	5.0																			
QC220914	MET07	08/01/03 13:06	50.0	+									+									
QC221049	MET07	08/01/03 14:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220915	MET07	08/04/03 13:48	1.0																			
QC220915	MET07	08/04/03 14:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220916	MET07	08/04/03 13:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220917	MET07	08/04/03 13:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220918	MET07	08/04/03 14:02	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220919	MET07	08/04/03 14:32	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220920	MET07	08/04/03 14:25	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220921	MET07	08/04/03 14:39	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166599 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	I E	S A	T G	L L	V N	Z N
QC220922	MET07	08/04/03 14:42	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC220939	MET07	08/01/03 06:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220940	MET07	08/01/03 06:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220941	MET07	08/01/03 06:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220942	MET07	08/01/03 07:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220943	MET07	08/01/03 07:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC220944	MET07	08/01/03 07:06	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC220944	MET07	08/01/03 07:10	5.0																	+		
QC220944	MET07	08/01/03 07:32	25.0										+									
QC220945	MET07	08/01/03 07:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 31-JUL-2003 15:59

Batch Number : 83339 Analysis : N/A Spike #1 ID : 03SS286
 Date Extracted: 31-JUL-2003 Bgroup : ICAP Spike #2 ID : 03SS287
 Extracted by : Patricia V. Vergara Units : g Spike #3 ID :
 Prep Method : 3050 Clean-up :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166599-001		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166599-002		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166599-003		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	mss
166599-004		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN	mss
166599-005		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1				BA, CU, PB, SB, ZN	
166599-006		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
166599-008		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166599-009		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166599-010		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166599-011		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166599-012		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166599-015		Treadwell & Rollo	Soil	2.46	g	100	40.6504	1				BA, CU, PB, SB, ZN	
166599-016		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN	
166599-017		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166599-018		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1				BA, CU, PB, SB, ZN	
166599-019		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166599-020		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1				BA, CU, PB, SB, ZN	
166599-021		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166599-022		Treadwell & Rollo	Soil	2.39	g	100	41.8410	1				BA, CU, PB, SB, ZN	
166599-023		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
QC220915	BLANK		Soil	2	g	100	50	1				ICAP	
QC220916	BS		Soil	2	g	100	50	1				ICAP	
QC220917	BSD		Soil	2	g	100	50	1				ICAP	
QC220918	MS	of 166599-003	Soil	2.07	g	100	48.3091	1				ICAP	
QC220919	MSD	of 166599-003	Soil	2.04	g	100	49.0196	1				ICAP	
QC220920	SER	of 166599-003	Soil	2.09	g	100	47.8468	1				ICAP	
QC220921	MS	of 166599-004	Soil	2.31	g	100	43.2900	1				ICAP	
QC220922	MSD	of 166599-004	Soil	2.18	g	100	45.8715	1				ICAP	

Prep Chemist: Patricia Vergara Reviewed By: MW Date: 8/1/03
 Relinquished By: Patricia Vergara Received By: MW Date: 8/4/03

PROJECT Soil Digestion

Notebook No. BK1775

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07/31/03

Batch# 03339

ICAP/M 3050

SAMPLE ID	Init vol (ml)	Final vol (ml)	Filtered Residue	Comments
* 166599-001	2.06	100.0	ND	SPIKES
002	2.05			✓ 0355286 (1.0ML)
003 (MSS)	2.09			✓ 0355287 ↓
004 ↓	2.04			
005	2.26			
006	2.18			
008	2.00			
009	2.09			
010	2.17			
011	2.15			
012	2.28			
015	2.46			
016	2.04			
017	2.02			
018	2.03			
019	2.15			
020	2.03			
021	2.14			
022	2.39			
023	2.15			
MS-BC 220915				
✓ BS 220916				
✓ BS 220617				
✓ MS-6599-003	2.07			
✓ MS-6599-003	2.04			
✓ MS 6599-004	2.31			
✓ MS 6599-004	2.18			

Reagents

1:1 HNO3 JT Baker #408021/072303

HNO3 JT Baker #405056

H2O2 VWR #42295317

1:1 HCL JT Baker #412028/07/23/03

Read and Understood By

Patricia Vergara

07/31/03 165

MW

8/4/03

Signed

Date

Signed

Date

Curtis & Tompkins Laboratories

Sample Preparation Summary

01-AUG-2003 07:21

Batch Number : 83342
Date Extracted: 01-AUG-2003
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166597-001		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1				T26/ICP	
166599-013		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				TAL/ICP	mss
166599-024		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				TAL/ICP	
166599-025		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1				TAL/ICP	
166599-026		Treadwell & Rollo	Soil	2.55	g	100	39.2156	1				TAL/ICP	
166599-027		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				TAL/ICP	
166639-001		Innovative Technical Solutions	Soil	2.07	g	100	48.3091	1				PB	
166639-002		Innovative Technical Solutions	Soil	2.19	g	100	45.6621	1				PB	
166643-001		ConocoPhillips Company	Miscell.	2.14	g	100	46.7289	1				V	
166643-002		ConocoPhillips Company	Miscell.	2.28	g	100	43.8596	1				V	
166643-003		ConocoPhillips Company	Miscell.	2.27	g	100	44.0528	1				V	
166649-002		Presidio Trust	Soil	2.22	g	100	45.0450	1				PB	
166649-003		Presidio Trust	Soil	2.02	g	100	49.5049	1				PB	
166649-004		Presidio Trust	Soil	2.31	g	100	43.2900	1				PB	
166649-005		Presidio Trust	Soil	2.17	g	100	46.0829	1				PB	
166649-006		Presidio Trust	Soil	2.16	g	100	46.2962	1				PB	
166649-007		Presidio Trust	Soil	2.09	g	100	47.8468	1				PB	
166649-008		Presidio Trust	Soil	2.5	g	100	40	1				PB	
166649-009		Presidio Trust	Soil	2.03	g	100	49.2610	1				PB	
QC220939	BLANK		Soil	2	g	100	50	1				ICAP	
QC220940	BS		Soil	2	g	100	50	1	1			ICAP	
QC220941	BSD		Soil	2	g	100	50	1	1			ICAP	
QC220942	MS		Soil	2.12	g	100	47.1698	1	1			ICAP	
QC220943	MSD	of 166599-013	Soil	2.44	g	100	40.9836	1	1			ICAP	
QC220944	SER	of 166599-013	Soil	2.24	g	100	44.6428	1	1			ICAP	
QC220945	PDS	of 166599-013	Soil	2.24	g	100	44.6428	1				ICAP	

Prep Chemist: *James*Reviewed By: *James*Date: *8/07/03*Relinquished By: *James*Received By: *James*Date: *8/07/03*

07/31/03

B# 83342

ICMP/3050

Sample

Sample
mass (g) | Final
VOL (ml)Filtered
yes/no

COMMONS

BK QC 220939

* BS 220930

* BSD 220941

* 166599.013 ms

* 166599.013 ms

166597-001

ms 166599-013

.024

.025

.026

.027

166639-001

.002

166643-001

.002

.003

166649-003

.004

.005

.006

.007

.008

.009

.002

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

212

244

207

224

209

226

255

219

207

219

214

228

227

202

231

217

216

209

250

203

203

222

100.0

yes

SPIKES

*0355286 (1.0 ml)

*0355287

Reagents

1:1 HNO₃ Y08024-072303H₂O₂ Y05030-11 BakerH₂O₂ 42295317 VWR

1:1 HCl Y12028-072303

7/31/03

Continued on Page

Read and Understood By

R. M. V. J. J.

Signed

07/31/03

Date

167

J. J. J.

Signed

8/01/03

Date

Curtis & Tompkins Laboratories

Sample Preparation Summary

01-AUG-2003 14:04

Batch Number : 83337
 Date Extracted : 31-JUL-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166566-004		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				TAL/ICP	
166566-005		Treadwell & Rollo	Soil	1.93	g	100	51.8134	1				TAL/ICP	
166568-001		URS Corporation	Soil	2.47	g	100	40.4858	1				T26/ICP	
166599-007		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	nss
166599-028		Treadwell & Rollo	Soil	2.3	g	100	43.4782	1				BA, CU, PB, SB, ZN	
166599-029		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166599-030		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166599-031		Treadwell & Rollo	Soil	2.12	g	100	47.1698	1				BA, CU, PB, SB, ZN	
166599-032		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166599-033		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				BA, CU, PB, SB, ZN	
166608-008		URS Corporation	Soil	2.2	g	100	45.4545	1				PB	
166608-013		URS Corporation	Soil	1.97	g	100	50.7614	1				PB	
166612-001		ConocoPhillips Company	Miscell.	2.16	g	100	46.2962	1				V	
166612-002		ConocoPhillips Company	Miscell.	2.56	g	100	39.0625	1				V	
166634-001		Innovative Technical Solutions	Soil	2.04	g	100	49.0196	1				CU, PB, SB	
166634-002		Innovative Technical Solutions	Soil	2.01	g	100	49.7512	1				CU, PB, SB	
166634-003		Innovative Technical Solutions	Soil	2.27	g	100	44.0528	1				CU, PB, SB	
QC220909	BLANK		Soil	2	g	100	50	1				ICAP	
QC220910	BS		Soil	2	g	100	50	1	1			ICAP	
QC220911	BSD		Soil	2	g	100	50	1	1			ICAP	
QC220912	MS		Soil	2.1	g	100	47.6190	1	1			ICAP	
QC220913	MSD	of 166599-007	Soil	2.09	g	100	47.8468	1	1			ICAP	
QC220914	SER	of 166599-007	Soil	2.05	g	100	48.7804	1				ICAP	
QC221049	PDS	of 166599-007	Soil	2.05	g	100	48.7804	1				ICAP	

Prep Chemist: *mw for pvt*

Reviewed By: *mw* Date: *8/1/03*

Relinquished By: *mw* Date: *8/1/03*

7/31/03	B# 8333T	ICAP/M 3050
Sample	Sample mass (g)	Final vol. (ml)
Sample	Sample mass (g)	Filtered Y/N
Blk - QC 220909	100	Yes
BS 220910		
BS 220911		
MS-6599-007	2.10	
MSD-6599-007	2.09	
MSS-166599-7A	2.05	
ASSEN BS		
-28	2.30	
-29	2.02	
-30	2.11	
-31	2.12	
-32	2.17	
-33	2.227	
166608-008 comp	2.20	
L -13 comp	1.97	
166642-1 comp	2.16	
-2 comp	2.56	
166634-001 A	2.04	
-002	2.01	
-003	2.27	
166586-004	2.12	
-005	1.93	
166568-001	2.47	

SPIKES

✓ 03SS280 (1.0ml)

✓ 03SS287 ↓

Reagents

1:1 HNO3 & BaCl2 # 402024/072303

HNO3 JT BAKER # 405050

H2O2 VWR # 42295317

1:1 HCl JT BAKER # 402128/0723/03

Comp. -4, -5, 8.

Comp. 9, 10, 11, 12

Comp. A-C

Comp. A-C

Patricia Virginia

07/31/03

169

7/31/03

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25 mg/Kg Bu

ICP Raw Data

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212164 CS		01-AUG-2003 05:59	1.0	1.0		1	
002	tr212165 ICV		01-AUG-2003 06:04	1.0	1.0		2	
003	tr212166 ICB		01-AUG-2003 06:21	1.0	1.0			
004	tr212167 CRI		01-AUG-2003 06:25	1.0	1.0		3	
005	tr212168 ICSAB		01-AUG-2003 06:32	1.0	1.0		4	4:MG=520300
006	tr212169 BLANK	QC220939	83342 Soil	01-AUG-2003 06:43	1.0			
007	tr212170 BS	QC220940	83342 Soil	01-AUG-2003 06:47	1.0			
008	tr212171 BSD	QC220941	83342 Soil	01-AUG-2003 06:51	1.0			
009	tr212172 MSS	166599-013	83342 Soil	01-AUG-2003 06:56	1.0			
010	tr212173 MSS	166599-013	83342 Soil	01-AUG-2003 07:01	1.0			
011	tr212174 SER	QC220944	83342 Soil	01-AUG-2003 07:06	5.0			
012	tr212175 SER	QC220944	83342 Soil	01-AUG-2003 07:10	5.0			
013	tr212176 MSS	166599-013	83342 Soil	01-AUG-2003 07:14	5.0			
014	tr212177 CCV	03w1150		01-AUG-2003 07:19	1.0		5	
015	tr212178 CCB		01-AUG-2003 07:28	1.0	1.0			
016	tr212179 SER	QC220944	83342 Soil	01-AUG-2003 07:32	25.0			
017	tr212180 MS	QC220942	83342 Soil	01-AUG-2003 07:36	1.0			
018	tr212181 MSD	QC220943	83342 Soil	01-AUG-2003 07:40	1.0			
019	tr212182 PDS	QC220945	83342 Soil	01-AUG-2003 07:44	1.0		6 7	
020	tr212183 SAMPLE	166599-024	83342 Soil	01-AUG-2003 07:49	1.0			
021	tr212184 SAMPLE	166599-025	83342 Soil	01-AUG-2003 07:53	1.0			
022	tr212185 SAMPLE	166599-026	83342 Soil	01-AUG-2003 07:57	1.0			
023	tr212186 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:01	1.0			
024	tr212187 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:05	1.0			
025	tr212188 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:09	1.0			
026	tr212189 CCV		01-AUG-2003 08:26	1.0	1.0		8	
027	tr212190 CCB		01-AUG-2003 08:39	1.0	1.0			
028	tr212191 SAMPLE	166599-024	83342 Soil	01-AUG-2003 08:43	10.0			
029	tr212192 SAMPLE	166599-025	83342 Soil	01-AUG-2003 08:47	10.0			
030	tr212193 SAMPLE	166599-026	83342 Soil	01-AUG-2003 08:51	10.0			
031	tr212194 SAMPLE	166599-027	83342 Soil	01-AUG-2003 08:55	10.0			
032	tr212195 SAMPLE	166643-001	83342 Miscel	01-AUG-2003 09:00	1.0			
					46.72897			

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: meiwa Date: 7/13

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr212196	SAMPLE	166643-002	83342	Miscel	01-AUG-2003	09:04	1.0	43.85965					
034	tr212197	SAMPLE	166643-003	83342	Miscel	01-AUG-2003	09:08	1.0	44.05286					
035	tr212198	SAMPLE	166597-001	83342	Soil	01-AUG-2003	09:12	1.0	48.30918					3:FE=262700
036	tr212199	SAMPLE	166639-001	83342	Soil	01-AUG-2003	09:16	1.0	48.30918					
037	tr212200	SAMPLE	166639-002	83342	Soil	01-AUG-2003	09:20	1.0	45.66210					
038	tr212201	CCV				01-AUG-2003	09:33	1.0	1.0			5		
039	tr212202	CCB				01-AUG-2003	09:39	1.0	1.0					
040	tr212203	BLANK	QC220867	83326	Wipe	01-AUG-2003	09:49	1.0	50.0					
041	tr212204	SAMPLE	166649-002	83342	Soil	01-AUG-2003	09:53	1.0	45.04505					2:FE=250500
042	tr212205	SAMPLE	166649-003	83342	Soil	01-AUG-2003	09:57	1.0	49.50495					3:FE=234100
043	tr212206	SAMPLE	166649-004	83342	Soil	01-AUG-2003	10:01	1.0	43.29004					2:FE=283000
044	tr212207	SAMPLE	166649-005	83342	Soil	01-AUG-2003	10:05	1.0	46.08295					2:FE=243700
045	tr212208	SAMPLE	166649-006	83342	Soil	01-AUG-2003	10:09	1.0	46.29630					2:FE=248000
046	tr212209	SAMPLE	166649-007	83342	Soil	01-AUG-2003	10:13	1.0	47.84689					4:FE=432200
047	tr212210	SAMPLE	166649-008	83342	Soil	01-AUG-2003	10:17	1.0	40.0					4:CA=430200
048	tr212211	SAMPLE	166649-009	83342	Soil	01-AUG-2003	10:20	1.0	49.26108					2:FE=409400
049	tr212212	MSS	166554-002	83290	Water	01-AUG-2003	10:25	20.0	1.0		1			
050	tr212213	CCV				01-AUG-2003	10:35	1.0	1.0			5		
051	tr212214	CCB				01-AUG-2003	10:39	1.0	1.0					
052	tr212215	SER	QC220729	83290	Water	01-AUG-2003	10:43	50.0	1.0					
053	tr212216	SER	QC220729	83290	Water	01-AUG-2003	10:46	100.0	1.0		1			
054	tr212217	SAMPLE	166599-014	83290	Water	01-AUG-2003	10:50	1.0	1.0		1			
055	tr212218	SAMPLE	166560-022	83290	Water	01-AUG-2003	10:54	1.0	1.0					
056	tr212219	SAMPLE	166561-023	83290	Water	01-AUG-2003	10:57	1.0	1.0					
057	tr212220	SAMPLE	166561-028	83290	Water	01-AUG-2003	11:00	1.0	1.0		1			
058	tr212221	SAMPLE	166552-004	83290	Water	01-AUG-2003	11:04	1.0	1.0					
059	tr212222	SAMPLE	166552-005	83290	Water	01-AUG-2003	11:07	1.0	1.0					
060	tr212223	ICSAB				01-AUG-2003	11:18	1.0	1.0			4		4:MG=545500
061	tr212224	CCV				01-AUG-2003	11:27	1.0	1.0			8		
062	tr212225	CCB				01-AUG-2003	11:39	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: AWC Date: 8/1/03

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079006
Filename : tr212169
IDF : 1.0

Samplenum: QC220939
Matrix : Soil
Batchnum : 83342
PDF : 50.0

Cident :
Acctnum :
Injected : 01-AUG-2003 06:43
Units : mg/Kg

Analyte	Result	RL	Flags
Aluminum	ND	5.0	u
Antimony	ND	3.0	u
Arsenic	ND	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	ND	25	u
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	ND	0.50	u
Iron	ND	5.0	u
Lead	ND	0.15	u
Magnesium	ND	25	u
Manganese	ND	0.50	u
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	ND	1.0	u
Titanium	ND	0.50	u

u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079007
Filename : tr212170
IDF : 1.0
PDF : 50.0
Run type : BS
Samplenum: QC220940
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 06:47
Units : mg/Kg

Instid : MET07
Seqnum : 73307079008
Filename : tr212171
IDF : 1.0
PDF : 50.0
Run type : BSD
Samplenum: QC220941
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 06:51

Analyte	Spike Conc	BS %Rec	BSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	909.0 91	910.5 91	57-120	0	20	u
Antimony	100.0	119.0 119	120.0 120	73-134	1	20	u
Arsenic	50.00	47.85 96	48.55 97	74-120	1	20	u
Barium	100.0	96.00 96	96.00 96	72-120	0	20	u
Beryllium	2.500	2.495 100	2.500 100	74-120	0	20	u
Cadmium	10.00	9.500 95	9.500 95	72-120	0	20	u
Calcium	1000	927.5 93	925.0 93	66-120	0	20	u
Chromium	100.0	95.50 96	95.50 96	74-120	0	20	u
Cobalt	25.00	23.35 93	23.40 94	70-120	0	20	u
Copper	12.50	11.85 95	12.20 98	70-120	3	20	u
Iron	1000	944.0 94	943.5 94	70-120	0	20	u
Lead	100.0	90.50 91	91.00 91	71-120	1	20	u
Magnesium	1000	943.0 94	944.0 94	69-120	0	20	u
Manganese	25.00	23.05 92	23.05 92	69-120	0	20	u
Molybdenum	20.00	19.00 95	19.40 97	76-120	2	20	u
Nickel	25.00	23.85 95	23.90 96	72-120	0	20	u
Selenium	50.00	43.70 87	44.35 89	66-120	1	20	u
Silver	10.00	9.350 94	9.400 94	66-120	1	20	u
Thallium	50.00	45.35 91	45.85 92	69-120	1	20	u
Vanadium	25.00	23.80 95	23.85 95	74-120	0	20	u
Zinc	25.00	23.25 93	23.35 93	68-120	0	20	u
Titanium	50.00	47.85 96	47.80 96	75-120	0	20	u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-013	Cident : LCPSB01[1]
Seqnum : 73307079009	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212172	Batchnum : 83342	Injected : 01-AUG-2003 06:56
IDF : 1.0	PDF : 44.64286	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4400	4.5	4.3	u
Antimony	ND	2.7		u
Arsenic.....	2.6	0.22		u
Barium.....	39	0.45		u
Beryllium.....	0.26	0.089	0.019	u
Cadmium.....	0.80	0.22		u
Chromium.....	38	0.45		u
Cobalt.....	5.1	0.89		u
Copper.....	8.8	0.45		u
Iron.....	8800 >LR	4.5	1.1	>b*
Lead.....	7.7	0.13	0.12	u
Magnesium.....	2600	22	1.7	u
Manganese.....	210	0.45		u
Nickel.....	30	0.89		u
Selenium.....	0.24	0.22		ab*
Silver	ND	0.22		u
Thallium	ND	0.22		u
Vanadium.....	24	0.45		u
Zinc.....	29	0.89	0.35	u

>=>LR a=rsd out b=noncompliant u=use

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-013	Cident : LCPSB01[1]
Seqnum : 73307079010	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212173	Batchnum : 83342	Injected : 01-AUG-2003 07:01
IDF : 1.0	PDF : 44.64286	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4400	4.5	4.3	
Antimony	ND	2.7		
Arsenic.....	2.3	0.22		a
Barium.....	39	0.45		
Beryllium.....	0.25	0.089	0.019	
Cadmium.....	0.80	0.22		
Chromium.....	38	0.45		
Cobalt.....	5.1	0.89		
Copper.....	8.8	0.45		
Iron.....	8700 >LR	4.5	1.1	>b*
Lead.....	7.5	0.13	0.12	
Magnesium.....	2600	22	1.7	
Manganese.....	210	0.45		
Nickel.....	30	0.89		
Selenium	ND	0.22		u
Silver	ND	0.22		
Thallium	ND	0.22		
Vanadium.....	24	0.45		
Zinc.....	29	0.89	0.35	

>=>LR a=rsd out b=noncompliant u=use

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-013	Cident : LCPSB01[1]
Seqnum : 73307079013	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212176	Batchnum : 83342	Injected : 01-AUG-2003 07:14
IDF : 5.0	PDF : 44.64286	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4300	22	4.3	
Antimony	ND	13		
Arsenic.....	1.5	1.1		a
Barium.....	38	2.2		
Beryllium	ND	0.45	0.019	
Cadmium	ND	1.1		
Chromium.....	37	2.2		
Cobalt.....	5.0	4.5		
Copper.....	8.3	2.2		
Iron.....	8700	22	1.1	u
Lead.....	7.9	0.67	0.12	
Magnesium.....	2600	110	1.7	
Manganese.....	210	2.2		
Nickel.....	30	4.5		
Selenium	ND	1.1		
Silver	ND	1.1		
Thallium	ND	1.1		
Vanadium.....	23	2.2		
Zinc.....	29	4.5	0.35	

a=rsd out u=use

Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079017
Filename : tr212180
IDF : 1.0
PDF : 47.16981
Run type : MS
Samplenum: QC220942
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 07:36
Units : mg/Kg

Instid : MET07
Seqnum : 73307079018
Filename : tr212181
IDF : 1.0
PDF : 40.98361
Run type : MSD
Samplenum: QC220943
Matrix : Soil
Batchnum : 83342
Inj : 01-AUG-2003 07:40

MSS : 166599-013

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	73307079009	4405	819.7	5755 >LR 143	5488 >LR 132	15-150	--	44	>u
Antimony	73307079009	1.201	81.97	79.72 83	57.79 69	15-123	18	45	u
Arsenic	73307079009	2.554	40.98	45.52 91	39.18 89	40-126	2	28	u
Barium	73307079009	39.24	81.97	153.3 121	117.6 96	19-138	17	30	u
Beryllium	73307079009	0.2603	2.049	2.552 97	2.189 94	58-120	3	20	u
Cadmium	73307079009	0.8036	8.197	9.481 92	8.156 90	47-120	2	24	u
Calcium	73307079009	2989	819.7	4125-120	3820 101	16-150	4	43	u
Chromium	73307079009	37.63	81.97	119.8 87	110.2 89	35-131	2	29	u
Cobalt	73307079009	5.134	20.49	30.85 109	23.85 91	39-120	14	29	u
Copper	73307079009	8.839	10.25	23.92 128	19.39 103	32-150	13	45	u
Iron	73307079013	8734	819.7	9877 >LR 121	9480 >LR 91	15-150	--	48	>u
Lead	73307079009	7.679	81.97	89.15 86	77.46 85	23-137	1	40	u
Magnesium	73307079009	2565	819.7	3450 94	3305 90	20-150	1	34	u
Manganese	73307079009	208.0	20.49	514.2 1298	263.5 271	15-150	63*	45	gu
Molybdenum	73307079009	0.3571	16.39	17.22 89	14.63 87	28-120	2	21	u
Nickel	73307079009	30.04	20.49	50.94 89	46.31 79	32-136	4	35	u
Selenium	73307079010	ND	40.98	38.30 81	33.03 81	38-120	1	23	u
Silver	73307079009	ND	8.197	8.868 94	7.582 93	55-120	2	26	u
Thallium	73307079009	0.1750	40.98	42.26 89	35.94 87	50-120	2	26	u
Vanadium	73307079009	24.11	20.49	47.64 100	42.62 90	25-130	4	26	u
Zinc	73307079009	29.33	20.49	50.00 88	46.72 85	20-147	1	32	u

:=recovery not meaningful >=>LR g=RPD failure u=use
Page 1 of 2

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 73307079017	Seqnum : 73307079017	Seqnum : 73307079018
Filename : tr212180	Filename : tr212181	Filename : tr212181
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 47.16981	PDF : 40.98361	PDF : 40.98361
Run type : MS	Run type : MSD	Run type : MSD
Samplenum: QC220942	Samplenum: QC220943	Samplenum: QC220943
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 83342	Batchnum : 83342	Batchnum : 83342
Inj : 01-AUG-2003 07:36	Inj : 01-AUG-2003 07:40	Inj : 01-AUG-2003 07:40
Units : mg/Kg		

MSS : 166599-013

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Titanium	73307079009	372.3	40.98	417.5 96	405.7 82	15-150	1	44	:u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-024	Cident : CHPSB09[3]
Seqnum : 73307079020	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212183	Batchnum : 83342	Injected : 01-AUG-2003 07:49
IDF : 1.0	PDF : 47.84689	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4000	4.8	4.3	u
Antimony.....	3.6	2.9		ab*
Arsenic.....	2.0	0.24		ab*
Barium.....	17	0.48		u
Beryllium	ND	0.096	0.019	u
Cadmium.....	0.59	0.24		u
Chromium.....	28	0.48		u
Cobalt.....	3.6	0.96		u
Copper.....	3.7	0.48		u
Iron.....	6600 >LR	4.8	1.1	>b*
Lead.....	6.2	0.14	0.12	u
Magnesium.....	1700	24	1.7	u
Manganese.....	79	0.48		u
Nickel.....	21	0.96		u
Selenium.....	0.32	0.24		u
Silver	ND	0.24		u
Thallium	ND	0.24		u
Vanadium.....	17	0.48		u
Zinc.....	14	0.96	0.35	u

>=>LR a=rsd out b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-025	Cident : CHPSB09[4]
Seqnum : 73307079021	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212184	Batchnum : 83342	Injected : 01-AUG-2003 07:53
IDF : 1.0	PDF : 44.24779	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	5400 >LR	4.4	4.3	>b*
Antimony	ND	2.7		u
Arsenic.....	2.2	0.22		u
Barium.....	25	0.44		u
Beryllium.....	0.14	0.088	0.019	u
Cadmium.....	0.74	0.22		u
Chromium.....	29	0.44		u
Cobalt.....	4.5	0.88		u
Copper.....	3.7	0.44		u
Iron.....	8400 >LR	4.4	1.1	>b*
Lead.....	2.9	0.13	0.12	u
Magnesium.....	2100	22	1.7	u
Manganese.....	100	0.44		u
Nickel.....	27	0.88		u
Selenium	ND	0.22		u
Silver	ND	0.22		u
Thallium	ND	0.22		u
Vanadium.....	22	0.44		u
Zinc.....	14	0.88	0.35	u

>=>LR b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-026	Cident : CHPSB10[2]
Seqnum : 73307079022	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212185	Batchnum : 83342	Injected : 01-AUG-2003 07:57
IDF : 1.0	PDF : 39.21569	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4200 >LR	3.9	4.3	>b*
Antimony	ND	2.4		u
Arsenic.....	2.0	0.20		u
Barium.....	18	0.39		u
Beryllium.....	0.096	0.078	0.019	u
Cadmium.....	0.60	0.20		u
Chromium.....	27	0.39		u
Cobalt.....	3.9	0.78		u
Copper.....	2.6	0.39		u
Iron.....	6800 >LR	3.9	1.1	>b*
Lead.....	2.1	0.12	0.12	u
Magnesium.....	1800	20	1.7	u
Manganese.....	87	0.39		u
Nickel.....	23	0.78		u
Selenium	ND	0.20		u
Silver	ND	0.20		u
Thallium	ND	0.20		u
Vanadium.....	18	0.39		u
Zinc.....	12	0.78	0.35	u

>=>LR b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07 Samplenum: 166599-027 Cident : DUP072903B
Seqnum : 73307079023 Matrix : Soil Acctnum : TREADWELL (SES)
Filename : tr212186 Batchnum : 83342 Injected : 01-AUG-2003 08:01
IDF : 1.0 PDF : 45.66210 Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4700 >LR	4.6	4.3	>b*
Antimony	ND	2.7		u
Arsenic.....	1.8	0.23		ab*
Barium.....	18	0.46		u
Beryllium.....	0.10	0.091	0.019	u
Cadmium.....	0.66	0.23		u
Chromium.....	29	0.46		u
Cobalt.....	4.3	0.91		u
Copper.....	2.9	0.46		u
Iron.....	7600 >LR	4.6	1.1	>b*
Lead.....	2.0	0.14	0.12	u
Magnesium.....	1900	23	1.7	u
Manganese.....	100	0.46		u
Nickel.....	22	0.91		u
Selenium.....	0.33	0.23		ab*
Silver	ND	0.23		u
Thallium.....	0.42	0.23		u
Vanadium.....	22	0.46		u
Zinc.....	13	0.91	0.35	u

>=>LR a=rsd out b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-024	Cident : CHPSB09[3]
Seqnum : 73307079024	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212187	Batchnum : 83342	Injected : 01-AUG-2003 08:05
IDF : 1.0	PDF : 47.84689	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4000	4.8	4.3	
Antimony	ND	2.9		u
Arsenic.....	1.8	0.24		u
Barium.....	17	0.48		
Beryllium	ND	0.096	0.019	
Cadmium.....	0.58	0.24		
Chromium.....	28	0.48		
Cobalt.....	3.5	0.96		
Copper.....	3.5	0.48		
Iron.....	6700 >LR	4.8	1.1	>b*
Lead.....	6.2	0.14	0.12	
Magnesium.....	1700	24	1.7	
Manganese.....	80	0.48		
Nickel.....	21	0.96		
Selenium.....	0.37	0.24		
Silver	ND	0.24		
Thallium	ND	0.24		
Vanadium.....	17	0.48		
Zinc.....	15	0.96	0.35	

>=>LR b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-027	Cident : DUP072903B
Seqnum : 73307079025	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212188	Batchnum : 83342	Injected : 01-AUG-2003 08:09
IDF : 1.0	PDF : 45.66210	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4700 >LR	4.6	4.3	>b*
Antimony.....	ND	2.7		
Arsenic.....	2.0	0.23		u
Barium.....	18	0.46		
Beryllium.....	ND	0.091	0.019	
Cadmium.....	0.66	0.23		
Chromium.....	29	0.46		
Cobalt.....	4.2	0.91		
Copper.....	3.0	0.46		
Iron.....	7600 >LR	4.6	1.1	>b*
Lead.....	2.0	0.14	0.12	
Magnesium.....	1800	23	1.7	
Manganese.....	100	0.46		
Nickel.....	22	0.91		
Selenium.....	ND	0.23		u
Silver.....	ND	0.23		
Thallium.....	ND	0.23		
Vanadium.....	21	0.46		
Zinc.....	13	0.91	0.35	

>=>LR b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-024	Cident : CHPSB09[3]
Seqnum : 73307079028	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212191	Batchnum : 83342	Injected : 01-AUG-2003 08:43
IDF : 10.0	PDF : 47.84689	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4100	48	4.3	
Antimony	ND	29		
Arsenic.....	3.3	2.4		
Barium.....	17	4.8		
Beryllium	ND	0.96	0.019	
Cadmium	ND	2.4		
Chromium.....	30	4.8		
Cobalt	ND	9.6		
Copper	ND	4.8		
Iron.....	6500	48	1.1	u
Lead.....	5.2	1.4	0.12	
Magnesium.....	1700	240	1.7	
Manganese.....	78	4.8		
Nickel.....	21	9.6		
Selenium	ND	2.4		
Silver	ND	2.4		
Thallium	ND	2.4		
Vanadium.....	16	4.8		
Zinc.....	16	9.6	0.35	

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-025	Cident : CHPSB09[4]
Seqnum : 73307079029	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212192	Batchnum : 83342	Injected : 01-AUG-2003 08:47
IDF : 10.0	PDF : 44.24779	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	5300	44	4.3	u
Antimony	ND	27		
Arsenic.....	2.3	2.2		
Barium.....	23	4.4		
Beryllium	ND	0.88	0.019	
Cadmium	ND	2.2		
Chromium.....	30	4.4		
Cobalt	ND	8.8		
Copper.....	5.0	4.4		
Iron.....	7900	44	1.1	u
Lead.....	3.2	1.3	0.12	
Magnesium.....	2000	220	1.7	
Manganese.....	96	4.4		
Nickel.....	26	8.8		
Selenium	ND	2.2		
Silver	ND	2.2		
Thallium	ND	2.2		
Vanadium.....	20	4.4		
Zinc.....	14	8.8	0.35	

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-026	Cident : CHPSB10[2]
Seqnum : 73307079030	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212193	Batchnum : 83342	Injected : 01-AUG-2003 08:51
IDF : 10.0	PDF : 39.21569	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4100	39	4.3	u
Antimony	ND	24		
Arsenic.....	2.3	2.0		ab*
Barium.....	17	3.9		
Beryllium	ND	0.78	0.019	
Cadmium	ND	2.0		
Chromium.....	27	3.9		
Cobalt	ND	7.8		
Copper	ND	3.9		
Iron.....	6300	39	1.1	u
Lead.....	2.1	1.2	0.12	
Magnesium.....	1700	200	1.7	
Manganese.....	82	3.9		
Nickel.....	22	7.8		
Selenium	ND	2.0		
Silver	ND	2.0		
Thallium	ND	2.0		
Vanadium.....	16	3.9		
Zinc.....	12	7.8	0.35	

a=rsd out b=noncompliant u=use

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SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Sampenum: 166599-027	Cident : DUP072903B
Seqnum : 73307079031	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212194	Batchnum : 83342	Injected : 01-AUG-2003 08:55
IDF : 10.0	PDF : 45.66210	Units : mg/Kg

Analyte	Result	RL	B=tr212169	Flags
Aluminum.....	4500	46	4.3	u
Antimony	ND	27		
Arsenic.....	3.2	2.3		
Barium.....	17	4.6		
Beryllium	ND	0.91	0.019	
Cadmium	ND	2.3		
Chromium.....	29	4.6		
Cobalt	ND	9.1		
Copper	ND	4.6		
Iron.....	7200	46	1.1	u
Lead	ND	1.4	0.12	
Magnesium.....	1700	230	1.7	
Manganese.....	97	4.6		
Nickel.....	21	9.1		
Selenium	ND	2.3		
Silver	ND	2.3		
Thallium	ND	2.3		
Vanadium.....	20	4.6		
Zinc.....	13	9.1	0.35	

u=use

Method: 6010B Standard: blank
Run Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.001	.001	-.025	.001	.000
SDev	.001	.000	.000	.000	.000	.001	.000
%RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.007	.001	-.000	.000	-.000	-.002
SDev	.000	.000	.001	.001	.000	.000	.000
%RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	.000	-.000	.000	.006	.0325	-.0133
SDev	.001	.000	.000	.000	.000	.0000	.0000
%RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0008	.0001	.000	.071			
SDev	.0001	.0001	.000	.000			
%RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

Method: 6010B Standard: cst hi
Run Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6625.80	4.25512	08/01/03 05:53:15
Sb206A	206.832	Multiple	Standards	10861.1	-4.95256	08/01/03 05:53:15
As1890	189.042	Multiple	Standards	12606.0	12.0996	08/01/03 05:53:15
Ba4934	493.409	Multiple	Standards	180.343	-.106017	08/01/03 05:53:15
Be3130	313.042	Multiple	Standards	145.252	3.58223	08/01/03 05:53:15
Cd2265	226.502	Multiple	Standards	424.876	-.420509	08/01/03 05:53:15
Cr2677	267.716	Multiple	Standards	4035.62	-1.45267	08/01/03 05:53:15
Co2286	228.616	Multiple	Standards	3592.62	.689783	08/01/03 05:53:15
Cu3247	324.754	Multiple	Standards	1698.73	11.3432	08/01/03 05:53:15
Pb2203	220.351	Multiple	Standards	3210.65	-2.02149	08/01/03 05:53:15
Pb220A	220.352	Multiple	Standards	3068.61	.349390	08/01/03 05:53:15
Mo2020	202.030	Multiple	Standards	3588.89	-.796321	08/01/03 05:53:15
Ni2316	231.604	Multiple	Standards	1287.52	.069626	08/01/03 05:53:15
Se1960	196.021	Multiple	Standards	12134.7	20.6758	08/01/03 05:53:15
Se196A	196.022	Multiple	Standards	9986.62	-9.52698	08/01/03 05:53:15
Ag3280	328.068	Multiple	Standards	1476.84	-.513876	08/01/03 05:53:15
Tl1908	190.864	Multiple	Standards	18521.3	8.55638	08/01/03 05:53:15
V_2924	292.402	Multiple	Standards	2605.16	-.984608	08/01/03 05:53:15
Zn2138	213.856	Multiple	Standards	3715.97	-22.0249	08/01/03 05:53:15
Al3082	308.215	Multiple	Standards	43764.1	-1421.94	08/01/03 05:53:15
Ca3179	317.933	Multiple	Standards	33923.4	451.181	08/01/03 05:53:15
Fe2714	271.441	Multiple	Standards	41884.3	34.6737	08/01/03 05:53:15
Mg2790	279.079	Multiple	Standards	52929.5	-7.62003	08/01/03 05:53:15
Mn2576	257.610	Multiple	Standards	517.941	-.046598	08/01/03 05:53:15
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Ti3349	334.941	Multiple	Standards	545.203	-38.5847	08/01/03 05:53:15

Method: 6010B Sample Name: 03ws1109
 Run Time: 08/01/03 05:59:41
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1000.	1010.	506.	1000.	100.	101.	201.
SDev	54.	57.	9.	3.	.	.	1.
%RSD	5.37	5.63	1.88	.280	.182	.324	.536
#1	967.	965.	512.	999.	100.	101.	201.
#2	1040.	1050.	499.	1000.	100.	101.	202.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	201.	504.	503.	1000.	501.	513.
SDev	.	.	1.	1.	3.7	2.	4.
%RSD	.010	.118	.228	.183	.375	.381	.726
#1	504.	201.	503.	503.	997.	500.	515.
#2	504.	201.	505.	504.	1000.	503.	510.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.	100.	502.	501.	100.	994.5	2001.
SDev	3.	.	1.	2.	.	8.2	5.
%RSD	.551	.146	.106	.303	.092	.8229	.2717
#1	501.	100.	501.	499.	100.	988.7	1997.
#2	505.	100.	502.	502.	100.	1000.	2004.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1017.	2009.	100.	503.	1010.	506.	1000.
SDev	4.	.	.	1.	56.	1.	4.
%RSD	.4219	.0046	.143	.198	5.54	.120	.379
#1	1020.	2009.	100.	503.	966.	506.	999.
#2	1014.	2009.	100.	504.	1040.	506.	1000.

Analysis Report

08/01/03 06:07:32 AM

page 1

Method: 6010B Sample Name: 03ws1149
 Run Time: 08/01/03 06:04:16
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	561.	538.	261.	493.	51.2	49.1	100.
SDev	8.	2.	2.	1.	.0	.6	.
%RSD	1.36	.317	.735	.128	.065	1.21	.335
#1	566.	539.	262.	492.	51.2	49.5	101.
#2	555.	537.	259.	493.	51.2	48.7	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249.	102.	247.	248.	487.	252.	246.
SDev	1.	.	5.	9.	15.	.	4.
%RSD	.474	.227	1.89	3.50	3.11	.180	1.52
#1	248.	102.	244.	242.	476.	251.	249.
#2	250.	102.	251.	254.	498.	252.	243.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	49.1	242.	247.	49.6	486.1	984.1
SDev	14.	1.2	3.	.	.1	10.8	3.2
%RSD	5.78	2.37	1.06	.019	.264	2.228	.3295
#1	259.	48.3	244.	247.	49.5	478.4	986.4
#2	238.	49.9	240.	247.	49.7	493.7	981.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.6	1012.	49.3	248.	546.	248.	508.
SDev	6.0	.	.1	7.	4.	11.	2.
%RSD	1.223	.0396	.109	2.96	.673	4.37	.325
#1	489.3	1012.	49.2	243.	548.	255.	507.
#2	497.9	1012.	49.3	253.	543.	240.	509.

Analysis Report

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page 1

Method: 6010B Sample Name: icb
 Run Time: 08/01/03 06:21:18
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.13	4.59	.598	-.033	.942	-.046	-.317
SDev	.35	2.69	1.55	.147	.016	.029	.489
%RSD	11.3	58.6	260.	442.	1.72	63.6	154.
#1	3.38	2.69	-.500	-.137	.930	-.067	-.662
#2	2.88	6.50	1.70	.071	.953	-.025	.029
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.520	-.385	-1.59	.318	1.73	-.300	6.04
SDev	.716	.271	2.58	1.92	1.09	.459	.31
%RSD	138.	70.5	163.	602.	62.9	153.	5.08
#1	-1.03	-.576	-3.41	1.67	2.50	-.625	6.26
#2	-.014	-.193	.239	-1.04	.961	.024	5.83
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.52	-.234	4.39	-.634	.428	33.54	-23.94
SDev	5.44	1.087	6.85	.137	.078	.34	2.09
%RSD	358.	464.	156.	21.6	18.2	1.024	8.740
#1	-5.37	-1.00	9.24	-.730	.373	33.30	-22.46
#2	2.33	.534	-.454	-.537	.483	33.78	-25.42
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.638	-1.788	.159	-.317	4.11	1.00	.903
SDev	3.230	.914	.058	.417	1.68	3.53	.082
%RSD	197.2	51.12	36.5	132.	40.9	352.	9.11
#1	-.6461	-2.435	.118	-.022	2.92	-1.49	.845
#2	3.922	-1.142	.201	-.612	5.29	3.49	.961

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws0897
 Run Time: 08/01/03 06:25:21
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	75.9	82.2	4.10	9.95	1.94	4.75	9.49
SDev	7.2	4.8	5.66	.03	.02	.10	.04
%RSD	9.43	5.82	138.	.263	1.19	2.17	.408
#1	70.9	78.8	.097	9.97	1.92	4.68	9.52
#2	81.0	85.6	8.11	9.93	1.95	4.82	9.46
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.2	9.38	1.80	4.64	16.9	20.3	4.73
SDev	.9	.07	1.46	.31	.1	.6	3.31
%RSD	4.57	.742	81.0	6.65	.371	3.16	70.1
#1	19.8	9.33	2.83	4.85	17.0	20.8	7.07
#2	18.5	9.43	.770	4.42	16.9	19.8	2.39
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.70	4.75	7.20	9.29	21.3	144.9	169.8
SDev	3.68	.29	5.89	.10	.2	7.8	.4
%RSD	136.	6.06	81.7	1.08	1.01	5.402	.2406
#1	.095	4.95	11.4	9.22	21.4	150.4	169.5
#2	5.30	4.55	3.04	9.36	21.1	139.4	170.1
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	103.8	209.0	9.86	3.69	80.1	3.38	1.13
SDev	1.6	6.7	.11	.69	5.6	1.35	.07
%RSD	1.570	3.223	1.09	18.7	6.96	40.0	5.99
#1	102.7	213.8	9.93	4.18	76.2	2.42	1.08
#2	105.0	204.3	9.78	3.20	84.1	4.33	1.18

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089
 Run Time: 08/01/03 06:32:01
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	520.	575.	549.	505.	500.	987.	482.
SDev	85.	1.	2.	2.	4.	5.	5.
%RSD	16.3	.095	.308	.407	.871	.555	.999
#1	460.	575.	550.	504.	497.	983.	478.
#2	580.	575.	548.	507.	503.	990.	485.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.	518.	933.	806.	458.	1040.	548.
SDev	4.	4.	16.	119.	37.	9.	31.
%RSD	.787	.837	1.66	14.8	8.17	.905	5.69
#1	481.	515.	944.	722.	432.	1040.	570.
#2	486.	521.	922.	890.	485.	1050.	526.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	1040.	495.	500.	1030.	508600.	453100.
SDev	57.	8.	15.	3.	8.	5183.	4564.
%RSD	11.9	.747	3.00	.524	.734	1.019	1.007
#1	434.	1040.	485.	498.	1020.	504900.	449800.
#2	514.	1050.	506.	502.	1030.	512200.	456300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	187900.	520300.	484.	848.	557.	499.	2030.
SDev	2136.	4918.	4.	74.	29.	27.	25.
%RSD	1.137	.9451	.909	8.76	5.15	5.48	1.21
#1	186400.	516800.	481.	796.	536.	479.	2010.
#2	189500.	523800.	487.	901.	577.	518.	2050.

Analysis Report

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page 1

Method: 6010B Sample Name: qc220939
 Run Time: 08/01/03 06:43:22
 Comment: ~~83337,1~~ 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.28	1.15	-4.98	.340	.374	.083	.912
SDev	2.79	4.29	.34	.043	.072	.062	.183
%RSD	30.0	374.	6.92	12.5	19.2	74.4	20.1
#1	11.3	4.18	-4.74	.310	.425	.039	.782
#2	7.31	-1.88	-5.22	.370	.323	.126	1.04
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.44	-.738	4.01	1.46	1.10	.420	-26.5
SDev	.26	.051	2.11	1.79	1.44	.216	7.8
%RSD	18.3	6.89	52.5	123.	131.	51.4	29.2
#1	-1.62	-.702	5.50	2.73	2.12	.267	-32.0
#2	-1.25	-.774	2.52	.191	.081	.572	-21.0
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.26	.190	-.136	-.625	7.04	86.93	-.2682
SDev	9.65	.404	12.07	.028	.11	2.56	3.2269
%RSP	104.	213.	8860.	4.42	1.59	2.950	1203.
#1	16.1	.475	-8.67	-.606	7.12	88.75	2.013
#2	2.43	-.096	8.40	-.645	6.96	85.12	-2.550
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21.30	33.96	.250	2.31	3.86	-2.67	4.14
SDev	13.74	4.84	.052	1.90	3.79	3.85	.31
%RSD	64.51	14.24	20.7	82.2	98.1	144.	7.59
#1	31.01	37.38	.214	3.65	6.54	.057	4.36
#2	11.58	30.54	.287	.967	1.18	-5.39	3.92

Analysis Report

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page 1

Method: 6010B Sample Name: qc220940

Operator: pps

Run Time: 08/01/03 06:47:21

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2290.	2420.	957.	1920.	49.9	190.	1910.
SDev	248.	12.	29.	32.	1.1	3.	35.
%RSD	10.8	.500	3.06	1.65	2.15	1.64	1.83

#1	2120.	2410.	936.	1890.	49.1	188.	1890.
#2	2470.	2430.	978.	1940.	50.6	192.	1940.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	467.	237.	1910.	1750.	380.	477.	907.
SDev	11.	4.	6.	191.	22.	9.	6.
%RSD	2.26	1.61	.306	10.9	5.88	1.83	.662

#1	460.	234.	1910.	1620.	365.	471.	902.
#2	475.	239.	1920.	1890.	396.	484.	911.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	858.	187.	907.	476.	465.	18180.	18550.
SDev	99.	2.	44.	9.	11.	511.	499.
%RSD	11.6	.907	4.80	1.88	2.38	2.809	2.692

#1	788.	186.	876.	470.	457.	17820.	18200.
#2	929.	188.	938.	483.	473.	18540.	18900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18880.	18860.	461.	1810.	2380.	874.	957.
SDev	356.	500.	10.	129.	91.	68.	24.
%RSD	1.887	2.653	2.15	7.16	3.82	7.81	2.52

#1	18630.	18510.	454.	1710.	2310.	826.	940.
#2	19130.	19220.	468.	1900.	2440.	923.	975.

Analysis Report

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page 1

Method: 6010B Sample Name: qc220941
 Run Time: 08/01/03 06:51:16
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2310.	2440.	971.	1920.	50.0	190.	1910.
SDev	269.	11.	8.	22.	1.0	2.	45.
%RSD	11.6	.471	.844	1.15	1.96	1.28	2.35
#1	2120.	2440.	965.	1900.	49.3	189.	1880.
#2	2510.	2430.	977.	1930.	50.7	192.	1940.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	468.	244.	1920.	1770.	388.	478.	911.
SDev	11.	3.	1.	177.	16.	10.	2.
%RSD	2.37	1.17	.066	9.99	4.09	2.01	.259
#1	460.	241.	1920.	1650.	377.	471.	912.
#2	476.	246.	1920.	1900.	399.	485.	909.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	875.	188.	917.	477.	467.	18210.	18500.
SDev	90.	2.	45.	10.	11.	441.	526.
%RSD	10.3	1.20	4.91	2.04	2.32	2.420	2.844
#1	811.	186.	885.	470.	460.	17900.	18130.
#2	939.	189.	949.	484.	475.	18520.	18870.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18870.	18880.	461.	1820.	2400.	887.	956.
SDev	396.	513.	11.	118.	82.	59.	24.
%RSD	2.099	2.714	2.39	6.46	3.43	6.71	2.51
#1	18590.	18520.	453.	1740.	2340.	845.	939.
#2	19150.	19240.	468.	1900.	2450.	929.	973.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-013
 Run Time: 08/01/03 06:56:39
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.82	35.9	57.2	879.	5.83	18.0	843.
SDev	31.7	19.1	2.3	11.	.31	.5	9.
%RSD	359.	53.2	4.09	1.22	5.24	2.77	1.07
#1	-13.6	49.3	55.6	887.	6.04	18.4	849.
#2	31.2	22.4	58.9	871.	5.61	17.7	836.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	115.	198.	221.	148.	8.00	673.	1.86
SDev	.	3.	19.	23.	6.97	2.	35.4
%RSD	.226	1.72	8.81	15.4	87.2	.343	1910.
#1	115.	200.	235.	132.	12.9	675.	26.9
#2	114.	195.	208.	164.	3.07	671.	-23.2
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.06	-1.32	3.92	540.	657.	98670.	66950.
SDev	3.70	2.90	8.11	7.	1.	371.	136.
%RSD	52.4	221.	207.	1.21	.089	.3762	.2032
#1	4.44	.737	-1.81	545.	658.	98930.	66860.
#2	9.68	-3.37	9.66	536.	657.	98410.	67050.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	196400.	57450.	4660.	172.	26.9	5.33	8340.
SDev	171.	57.	4.	9.	2.2	9.32	12.
%RSD	.0869	.0993	.086	5.07	8.03	175.	.145
#1	196300.	57410.	4660.	166.	28.4	11.9	8330.
#2	196500.	57490.	4670.	179.	25.3	-1.26	8350.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-013
 Run Time: 08/01/03 07:01:22
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.13	23.3	51.9	873.	5.61	17.9	843.
SDev	23.2	17.5	11.2	2.	.27	.6	8.
%RSD	1090.	75.3	21.6	.236	4.87	3.10	.919
#1	-14.3	35.6	59.8	875.	5.81	18.2	837.
#2	18.5	10.9	44.0	872.	5.42	17.5	848.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	114.	197.	215.	146.	2.91	671.	-1.52
SDev	1.	1.	16.	31.	2.68	7.	18.66
%RSD	1.03	.280	7.24	21.2	92.2	1.09	1230.
#1	113.	197.	226.	124.	4.81	666.	11.7
#2	115.	197.	204.	168.	1.01	677.	-14.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.29	-1.95	1.36	538.	653.	98260.	66730.
SDev	10.7	1.05	4.65	1.	6.	933.	826.
%RSD	467.	53.6	342.	.232	.920	.9495	1.238
#1	-5.28	-1.21	-1.93	539.	649.	97600.	66140.
#2	9.86	-2.69	4.65	537.	658.	98920.	67310.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	195700.	57320.	4660.	169.	16.2	1.02	8310.
SDev	2364.	407.	52.	15.	3.9	.92	94.
%RSD	1.208	.7099	1.12	9.14	24.3	90.2	1.13
#1	194000.	57030.	4620.	158.	19.0	.370	8250.
#2	197400.	57610.	4690.	180.	13.4	1.67	8380.

Analysis Report

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page 1

Method: 6010B Sample Name: qc220944
 Run Time: 08/01/03 07:06:02
 Comment: 83342,5
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.90	.926	10.0	172.	1.11	3.28	166.
SDev	9.10	5.55	1.9	1.	.04	.11	2.
%RSD	233.	600.	19.2	.855	3.87	3.35	1.05
#1	-2.53	4.85	11.4	171.	1.15	3.20	164.
#2	10.3	-3.00	8.67	173.	1.08	3.36	167.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.2	36.8	39.0	28.4	2.22	134.	-.052
SDev	.6	.5	2.8	5.5	1.98	2.	2.064
%RSD	2.61	1.38	7.26	19.5	89.0	1.39	3960.
#1	22.7	37.2	41.1	24.4	.822	133.	1.41
#2	21.8	36.5	37.0	32.3	3.62	135.	-1.51
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.59	-1.76	14.5	106.	132.	19560.	13520.
SDev	2.28	.04	6.5	.	2.	304.	174.
%RSD	34.6	2.31	44.9	.313	1.31	1.556	1.287
#1	8.21	-1.73	9.92	105.	131.	19340.	13390.
#2	4.98	-1.79	19.2	106.	134.	19770.	13640.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	39390.	11550.	936.	31.9	1.92	4.38	1630.
SDev	592.	131.	12.	2.7	.67	2.21	23.
%RSD	1.502	1.134	1.26	8.60	34.8	50.4	1.42
#1	38970.	11460.	928.	30.0	2.39	5.94	1610.
#2	39810.	11640.	944.	33.9	1.45	2.82	1640.

Analysis Report

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Method: 6010B Sample Name: qc220944 Operator: pps
 Run Time: 08/01/03 07:10:31
 Comment: 83342,5
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.18	-1.64	10.8	171.	.942	3.34	164.
SDev	2.69	1.60	3.0	1.	.028	.15	1.
%RSD	64.4	97.6	28.1	.555	2.92	4.58	.577
#1	6.09	-.508	8.66	171.	.961	3.45	164.
#2	2.28	-2.78	13.0	170.	.923	3.23	165.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.0	38.0	39.7	28.1	.076	134.	3.20
SDev	.1	.2	5.7	7.6	2.12	1.	2.08
%RSD	.318	.527	14.4	27.1	2800.	.467	64.8
#1	22.1	38.2	43.7	22.7	-1.42	134.	1.74
#2	22.0	37.9	35.6	33.5	1.58	133.	4.67
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.66	-1.54	-.412	105.	132.	19520.	13650.
SDev	7.28	.25	4.202	.	.	21.	193.
%RSD	129.	16.2	1020.	.401	.072	.1067	1.410
#1	.513	-1.71	2.56	105.	132.	19500.	13790.
#2	10.8	-1.36	-3.38	104.	132.	19530.	13520.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	39270.	11940.	936.	32.0	.300	4.84	1620.
SDev	162.	561.	1.	3.2	1.97	5.55	4.
%RSD	.4125	4.695	.104	9.97	656.	115.	.233
#1	39150.	12340.	936.	29.7	1.69	.920	1620.
#2	39380.	11550.	935.	34.2	-1.09	8.76	1620.

Analysis Report

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Method: 6010B Sample Name: 166599-013
 Run Time: 08/01/03 07:14:35
 Comment: 83342,5
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.70	3.78	6.58	170.	.913	3.34	165.
SDev	6.21	2.42	2.93	1.	.020	.26	2.
%RSD	366.	64.0	44.6	.485	2.18	7.68	1.07
#1	6.09	5.49	4.50	170.	.927	3.16	164.
#2	-2.70	2.07	8.65	171.	.898	3.52	167.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.5	37.4	40.6	32.4	.793	134.	-5.25
SDev	.0	.7	.1	3.2	.096	2.	8.26
%RSD	.093	1.99	.336	9.73	12.1	1.35	157.
#1	22.5	36.9	40.5	30.2	.861	132.	-11.1
#2	22.6	38.0	40.7	34.7	.725	135.	.592
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.86	-1.55	.514	105.	132.	19480.	13440.
SDev	3.50	.74	.978	.	1.	226.	153.
%RSD	39.5	47.8	190.	.152	1.12	1.160	1.135
#1	6.38	-2.08	-.178	105.	131.	19320.	13340.
#2	11.3	-1.03	1.21	105.	133.	19640.	13550.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	39130.	11480.	930.	35.2	3.08	4.16	1610.
SDev	465.	112.	9.	2.1	3.68	5.08	24.
%RSD	1.188	.9716	1.02	6.11	119.	122.	1.51
#1	38800.	11410.	924.	33.7	5.69	.562	1600.
#2	39460.	11560.	937.	36.7	.480	7.75	1630.

Analysis Report

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Method: 6010B

Sample Name: 03w1150

Operator: pps

Run Time: 08/01/03 07:19:44

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	523.	520.	256.	501.	51.6	50.5	102.
SDev	21.	13.	2.	.	.0	.4	.
%RSD	3.97	2.56	.681	.007	.004	.750	.192
#1	509.	511.	255.	501.	51.6	50.3	101.
#2	538.	530.	257.	501.	51.6	50.8	102.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	254.	103.	249.	243.	477.	256.	245.
SDev	1.	1.	5.	18.	28.	1.	10.
%RSD	.298	.803	1.98	7.41	5.82	.301	4.01
#1	253.	102.	246.	230.	458.	255.	238.
#2	254.	104.	253.	256.	497.	256.	252.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	49.5	251.	251.	50.9	548.4	1011.
SDev	6.	.8	2.	.	.1	4.1	29.
%RSP	2.40	1.60	.643	.052	.222	.7535	2.820
#1	246.	49.0	253.	250.	50.8	551.4	1031.
#2	254.	50.1	250.	251.	51.0	545.5	990.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	525.7	1098.	50.8	245.	521.	248.	514.
SDev	.2	86.	.4	14.	16.	7.	2.
%RSD	.0339	7.806	.857	5.57	3.04	2.93	.328
#1	525.8	1158.	51.1	235.	510.	243.	512.
#2	525.6	1037.	50.5	255.	532.	254.	515.

Analysis Report

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Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 07:28:27
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.9	10.2	-3.56	-.024	-.651	-.431	-.424
SDev	.3	.8	6.15	.042	.021	.117	.485
%RSD	2.66	8.09	173.	175.	3.27	27.1	114.
#1	11.1	9.64	-7.91	-.053	-.636	-.348	-.767
#2	10.7	10.8	.790	.006	-.666	-.513	-.082
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.314	.533	.580	-1.13	3.65	-.174	-7.54
SDev	.185	.092	1.27	1.63	.06	.233	.53
%RSD	58.9	17.2	219.	145.	1.74	134.	7.05
#1	-.183	.468	1.48	.028	3.69	-.010	-7.92
#2	-.444	.598	-.316	-2.28	3.60	-.339	-7.17
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.75	-.720	2.21	-.907	.178	24.80	10.03
SDev	7.89	.723	3.32	.783	.119	4.71	1.00
%RSD	451.	100.	150.	86.3	66.7	18.98	9.938
#1	7.33	-1.23	-.134	-1.46	.094	28.13	10.73
#2	-3.83	-.209	4.56	-.353	.262	21.47	9.322
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.684	-7.254	.428	-.558	10.5	-1.35	.613
SDev	1.058	2.826	.165	1.511	.5	5.09	.022
%RSD	39.40	38.95	38.5	271.	4.35	378.	3.64
#1	-1.936	-5.256	.545	.510	10.1	2.25	.597
#2	-3.432	-9.252	.312	-1.63	10.8	-4.94	.628

Method: 6010B Sample Name: qc220944
 Run Time: 08/01/03 07:32:17
 Comment: 83342,25
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.62	10.5	2.11	33.5	-.591	.546	31.9
SDev	1.36	8.8	1.21	.0	.005	.116	.2
%RSD	20.6	84.2	57.4	.048	.890	21.2	.524
#1	7.59	4.24	1.26	33.5	-.587	.628	31.7
#2	5.66	16.7	2.97	33.6	-.594	.464	32.0
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.13	8.14	5.10	4.61	.267	26.8	-4.95
SDev	.17	.01	.73	1.51	1.63	.3	5.91
%RSD	4.20	.129	14.4	32.8	610.	1.16	119.
#1	4.01	8.14	4.58	5.68	-.884	27.0	-9.13
#2	4.25	8.15	5.62	3.54	1.42	26.6	-.773
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.13	-1.17	5.37	20.1	25.7	3882.	2708.
SDev	7.71	.26	11.1	.1	.1	8.	10.
%RSP	362.	22.6	206.	.337	.241	.2169	.3813
#1	7.59	-.980	-2.46	20.1	25.7	3876.	2701.
#2	-3.32	-1.35	13.2	20.0	25.7	3888.	2715.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7792.	2276.	187.	4.78	9.19	-.227	318.
SDev	56.	14.	1.	.77	5.43	3.174	2.
%RSD	.7179	.6048	.484	16.0	59.0	1400.	.639
#1	7752.	2266.	186.	5.32	5.35	2.02	317.
#2	7832.	2286.	187.	4.23	13.0	-2.47	319.

Method: 6010B Sample Name: qc220942
 Run Time: 08/01/03 07:36:28
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1690.	1700.	965.	3250.	54.1	201.	2540.
SDev	11.	78.	6.	14.	.1	1.	18.
%RSD	.659	4.58	.596	.418	.206	.264	.704
#1	1680.	1750.	961.	3250.	54.2	201.	2520.
#2	1690.	1640.	969.	3240.	54.0	201.	2550.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	654.	507.	2060.	1810.	365.	1080.	863.
SDev	6.	.	32.	231.	8.	5.	23.
%RSD	.912	.080	1.54	12.8	2.06	.504	2.66
#1	650.	507.	2080.	1650.	360.	1080.	879.
#2	658.	507.	2040.	1970.	370.	1090.	847.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	786.	188.	896.	1010.	1060.	122000.	87450.
SDev	111.	2.	42.	.	8.	1082.	1223.
%RSD	14.1	1.25	4.74	.005	.768	.8870	1.398
#1	708.	189.	866.	1010.	1060.	121200.	86580.
#2	865.	186.	926.	1010.	1070.	122700.	88310.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	209400.	73140.	10900.	1890.	1690.	812.	8850.
SDev	2444.	879.	119.	144.	48.	66.	113.
%RSD	1.167	1.202	1.09	7.59	2.84	8.18	1.27
#1	207700.	72510.	10800.	1790.	1730.	765.	8770.
#2	211200.	73760.	11000.	1990.	1660.	859.	8930.

Method: 6010B Sample Name: qc220943
 Run Time: 08/01/03 07:40:22
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1350.	1440.	956.	2870.	53.4	199.	2690.
SDev	191.	11.	22.	57.	1.1	4.	79.
%RSD	14.1	.731	2.29	1.98	2.13	2.21	2.92
#1	1210.	1450.	941.	2830.	52.6	196.	2640.
#2	1480.	1440.	972.	2910.	54.2	202.	2750.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	582.	473.	2040.	1810.	357.	1130.	850.
SDev	17.	10.	4.	212.	10.	31.	13.
%RSD	2.92	2.18	.202	11.7	2.92	2.77	1.57
#1	570.	466.	2050.	1660.	350.	1110.	859.
#2	594.	480.	2040.	1960.	365.	1150.	840.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	784.	185.	877.	1040.	1140.	133900.	93210.
SDev	135.	1.	37.	24.	35.	4419.	3476.
%RSD	17.2	.517	4.25	2.33	3.11	3.299	3.729
#1	689.	184.	851.	1020.	1110.	130800.	90750.
#2	879.	185.	904.	1050.	1160.	137100.	95660.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	231300.	80650.	6430.	1890.	1410.	806.	9900.
SDev	7756.	2761.	217.	140.	57.	85.	339.
%RSD	3.354	3.424	3.38	7.40	4.00	10.6	3.42
#1	225800.	78700.	6280.	1790.	1370.	746.	9670.
#2	236700.	82600.	6580.	1990.	1450.	866.	10100.

Analysis Report

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Method: 6010B Sample Name: qc220945
 Run Time: 08/01/03 07:44:16
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2200.	2400.	1010.	2780.	54.0	201.	2690.
SDev	413.	35.	12.	40.	.8	3.	57.
%RSD	18.8	1.45	1.20	1.44	1.57	1.53	2.13
#1	1900.	2370.	1000.	2750.	53.4	199.	2650.
#2	2490.	2420.	1020.	2810.	54.6	203.	2730.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	572.	439.	2080.	1870.	394.	1100.	923.
SDev	12.	8.	4.	188.	8.	20.	25.
%RSD	2.08	1.82	.201	10.0	2.07	1.78	2.76
#1	563.	433.	2080.	1740.	388.	1090.	941.
#2	580.	444.	2070.	2010.	399.	1110.	905.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	865.	189.	906.	995.	1070.	116500.	84560.
SDev	119.	.	53.	17.	25.	3189.	2361.
%RSD	13.8	.153	5.86	1.69	2.30	2.736	2.793
#1	781.	188.	868.	983.	1060.	114300.	82890.
#2	949.	189.	943.	1010.	1090.	118800.	86230.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	207000.	76270.	5010.	1940.	2330.	884.	9020.
SDev	5140.	1966.	126.	124.	161.	71.	226.
%RSD	2.482	2.577	2.51	6.38	6.90	8.02	2.50
#1	203400.	74880.	4930.	1850.	2220.	834.	8860.
#2	210700.	77660.	5100.	2030.	2440.	934.	9180.

Analysis Report

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Method: 6010B Sample Name: 166599-024
 Run Time: 08/01/03 07:49:40
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	97.6	64.4	41.6	358.	1.82	12.3	577.
SDev	72.3	59.1	8.7	8.	.02	.2	10.
%RSD	74.1	91.8	20.9	2.11	1.23	1.47	1.79
#1	149.	106.	47.8	353.	1.81	12.5	570.
#2	46.5	22.6	35.5	364.	1.84	12.2	584.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	74.4	77.0	157.	114.	8.71	432.	2.33
SDev	1.3	1.2	12.	9.	3.04	12.	9.99
%RSD	1.75	1.62	7.67	7.69	35.0	2.68	428.
#1	73.5	76.2	166.	108.	10.9	424.	9.40
#2	75.3	77.9	149.	121.	6.56	441.	-4.73
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.71	-.816	4.18	351.	302.	83170.	37040.
SDev	5.47	1.311	2.57	8.	10.	2783.	1426.
%RSD	62.8	161.	61.4	2.31	3.25	3.347	3.851
#1	4.84	.111	2.37	345.	295.	81200.	36030.
#2	12.6	-1.74	6.00	357.	309.	85130.	38050.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	137400.	35280.	1660.	129.	75.5	6.59	4770.
SDev	4746.	1258.	57.	2.	63.5	.32	162.
%RSD	3.455	3.565	3.43	1.43	84.2	4.85	3.39
#1	134000.	34390.	1620.	128.	120.	6.36	4660.
#2	140700.	36170.	1700.	130.	30.6	6.81	4880.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-025
 Run Time: 08/01/03 07:53:34
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.62	24.0	49.1	554.	3.20	16.8	662.
SDev	38.0	28.0	.4	8.	.07	.2	12.
%RSD	677.	117.	.883	1.49	2.26	1.19	1.83
#1	-21.3	43.8	48.8	548.	3.25	16.9	654.
#2	32.5	4.19	49.4	560.	3.15	16.7	671.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	102.	84.1	103.	46.9	4.95	601.	8.04
SDev	2.	1.1	15.	17.4	2.77	15.	9.34
%RSD	2.28	1.30	14.1	37.0	56.0	2.56	116.
#1	100.	84.8	114.	34.6	6.91	590.	14.6
#2	104.	83.3	92.9	59.2	2.99	612.	1.44
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.33	-1.19	2.90	497.	327.	121900.	51260.
SDev	5.47	1.58	4.39	8.	9.	3663.	1656.
%RSD	411.	133.	152.	1.65	2.73	3.004	3.231
#1	-5.20	-.074	6.00	491.	321.	119300.	50090.
#2	2.54	-2.31	-.210	503.	334.	124500.	52430.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	188900.	46760.	2290.	65.7	17.9	1.79	7370.
SDev	5629.	1459.	66.	6.7	6.0	.54	212.
%RSD	2.980	3.120	2.87	10.2	33.6	29.9	2.88
#1	184900.	45730.	2250.	60.9	22.1	1.41	7220.
#2	192900.	47790.	2340.	70.4	13.6	2.17	7520.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-026
 Run Time: 08/01/03 07:57:28
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.53	25.3	50.5	449.	2.46	15.2	682.
SDev	26.7	9.0	1.4	1.	.15	.4	2.
%RSD	755.	35.6	2.85	.121	6.11	2.52	.232
#1	-15.3	31.7	51.5	449.	2.57	15.4	680.
#2	22.4	18.9	49.5	450.	2.36	14.9	683.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	99.4	66.8	86.4	36.0	1.85	574.	-2.81
SDev	.5	.6	15.3	9.8	1.53	5.	25.18
%RSD	.551	.966	17.7	27.3	83.2	.938	894.
#1	99.0	67.3	97.2	29.1	2.93	570.	15.0
#2	99.8	66.4	75.5	43.0	.760	577.	-20.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.33	-2.31	3.44	451.	318.	106900.	60620.
SDev	18.5	2.15	1.17	1.	4.	1506.	1033.
%RSD	428.	93.0	34.2	.112	1.20	1.408	1.705
#1	-8.75	-.791	2.61	451.	315.	105900.	59890.
#2	17.4	-3.83	4.27	452.	320.	108000.	61350.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	172400.	45350.	2230.	52.8	18.1	1.95	6690.
SDev	2657.	712.	32.	1.5	2.9	3.94	104.
%RSD	1.541	1.569	1.43	2.75	16.0	203.	1.56
#1	170600.	44850.	2210.	51.8	16.0	-.840	6620.
#2	174300.	45860.	2260.	53.8	20.1	4.73	6760.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-027
 Run Time: 08/01/03 08:01:23
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.78	16.5	40.3	393.	2.28	14.5	639.
SDev	25.76	21.2	9.6	1.	.11	.2	1.
%RSD	1450.	128.	23.8	.249	4.91	1.62	.227
#1	-20.0	31.5	47.1	392.	2.36	14.7	638.
#2	16.4	1.51	33.5	393.	2.20	14.4	640.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	93.9	63.5	75.0	27.6	1.88	487.	13.1
SDev	.7	1.2	14.2	10.6	.81	5.	20.5
%RSD	.712	1.87	19.0	38.5	43.2	.940	157.
#1	94.4	64.3	85.0	20.1	2.45	484.	27.5
#2	93.4	62.7	64.9	35.2	1.30	491.	-1.42
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.34	-2.22	9.16	471.	293.	102100.	60430.
SDev	4.56	1.83	.16	2.	4.	1458.	1058.
%RSD	105.	82.6	1.74	.329	1.43	1.429	1.750
#1	1.11	-.922	9.27	469.	290.	101000.	59680.
#2	7.56	-3.51	9.05	472.	296.	103100.	61180.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	167200.	40620.	2280.	43.4	10.4	7.25	7990.
SDev	2618.	669.	36.	2.4	5.6	3.79	128.
%RSD	1.565	1.646	1.56	5.41	53.4	52.2	1.60
#1	165400.	40150.	2260.	41.8	14.4	9.92	7900.
#2	169100.	41090.	2310.	45.1	6.49	4.57	8080.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-024
 Run Time: 08/01/03 08:05:31
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.31	8.43	38.3	361.	1.40	12.1	579.
SDev	15.6	2.63	.8	1.	.02	.1	.
%RSD	213.	31.2	1.99	.178	1.09	.550	.006
#1	-3.72	6.57	38.9	361.	1.41	12.1	579.
#2	18.3	10.3	37.8	360.	1.39	12.2	579.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	73.7	73.8	154.	116.	1.59	436.	-5.59
SDev	.1	.1	5.	10.	.11	3.	3.17
%RSD	.152	.080	3.40	8.94	6.93	.725	56.8
#1	73.7	73.8	157.	109.	1.51	433.	-3.35
#2	73.8	73.8	150.	124.	1.67	438.	-7.84
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.3	-2.41	-.415	351.	304.	84350.	37810.
SDev	1.4	1.29	1.182	3.	2.	628.	289.
%RSD	9.69	53.4	285.	.839	.623	.7446	.7633
#1	13.3	-1.50	-1.25	349.	303.	83910.	37610.
#2	15.3	-3.32	.421	353.	306.	84800.	38020.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	139000.	35650.	1680.	129.	8.06	7.65	4810.
SDev	1144.	378.	14.	5.	6.96	.14	56.
%RSD	.8230	1.061	.803	4.03	86.3	1.78	1.16
#1	138200.	35380.	1670.	125.	3.14	7.75	4770.
#2	139800.	35920.	1690.	132.	13.0	7.56	4850.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-027
 Run Time: 08/01/03 08:09:38
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.93	16.1	44.2	389.	1.89	14.4	632.
SDev	20.8	3.5	6.1	1.	.08	.3	2.
%RSD	263.	22.0	13.7	.273	4.35	2.43	.299
#1	-6.81	18.6	48.4	389.	1.95	14.6	631.
#2	22.7	13.6	39.9	390.	1.83	14.1	633.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	92.9	64.7	69.4	29.6	4.57	483.	-7.65
SDev	.5	.4	11.6	9.8	1.26	6.	17.63
%RSD	.556	.571	16.7	33.2	27.6	1.25	231.
#1	92.5	64.9	77.6	22.6	5.46	478.	4.82
#2	93.3	64.4	61.2	36.5	3.68	487.	-20.1
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.96	-2.09	-3.14	467.	290.	102300.	60340.
SDev	14.3	.90	3.13	3.	3.	1204.	989.
%RSD	144.	43.0	99.7	.611	.928	1.177	1.639
#1	-.180	-1.45	-5.36	465.	288.	101400.	59640.
#2	20.1	-2.72	-.926	469.	292.	103100.	61040.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	166000.	40320.	2270.	42.8	13.4	4.09	7950.
SDev	2231.	579.	30.	2.7	4.6	3.68	111.
%RSD	1.344	1.436	1.31	6.26	34.3	90.1	1.39
#1	164400.	39910.	2250.	41.0	10.1	1.49	7870.
#2	167600.	40730.	2290.	44.7	16.6	6.69	8020.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151
 Run Time: 08/01/03 08:26:16
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	823.	789.	374.	733.	75.3	72.6	148.
SDev	7.	6.	3.	1.	.3	.2	1.
%RSD	.891	.801	.716	.129	.389	.312	.453
#1	828.	785.	372.	733.	75.5	72.4	147.
#2	818.	794.	376.	732.	75.1	72.8	148.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	368.	152.	353.	332.	694.	373.	352.
SDev	1.	.	24.	53.	52.	.	17.
%RSD	.283	.123	6.68	15.9	7.49	.059	4.74
#1	367.	152.	336.	295.	657.	373.	340.
#2	369.	152.	369.	370.	730.	373.	363.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	350.	72.6	367.	367.	73.2	708.8	1476.
SDev	23.	3.3	6.	1.	.2	1.2	3.
%RSD	6.56	4.56	1.51	.355	.223	.1641	.2226
#1	334.	70.3	371.	366.	73.3	708.0	1478.
#2	366.	75.0	363.	368.	73.1	709.6	1474.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	728.0	1488.	73.3	339.	801.	350.	742.
SDev	9.1	6.	.1	43.	2.	21.	6.
%RSD	1.250	.4364	.108	12.7	.221	5.95	.876
#1	734.5	1493.	73.3	309.	799.	336.	737.
#2	721.6	1484.	73.2	370.	802.	365.	746.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 08:39:31
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.71	5.79	-.448	.116	-2.57	-.140	-.557
SDev	.11	3.96	.100	.111	.02	.202	.198
%RSD	1.44	68.5	22.2	96.1	.641	145.	35.5
#1	7.79	2.98	-.377	.194	-2.56	-.282	-.417
#2	7.64	8.59	-.518	.037	-2.58	.003	-.697
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.081	2.33	-1.53	.249	2.29	.341	4.94
SDev	.148	.84	.97	3.82	.71	.824	1.03
%RSD	182.	35.9	63.7	1530.	31.1	242.	20.8
#1	-.186	2.92	-2.21	-2.45	2.80	.924	4.22
#2	.023	1.74	-.839	2.95	1.79	-.242	5.67
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.745	-.127	-.899	-.375	.483	-44.24	57.28
SDev	6.61	.471	4.576	.004	.034	1.80	1.08
%RSD	887.	370.	509.	1.00	7.01	4.071	1.891
#1	-3.93	.206	2.34	-.373	.459	-42.97	56.51
#2	5.42	-.461	-4.13	-.378	.507	-45.52	58.04
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.15	4.988	.480	-.343	6.43	2.14	1.57
SDev	9.02	1.425	.013	2.868	2.61	4.75	.24
%RSD	63.76	28.56	2.76	837.	40.5	221.	14.9
#1	20.53	5.995	.489	-2.37	4.59	-1.21	1.74
#2	7.770	3.981	.470	1.69	8.27	5.50	1.41

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-024
 Run Time: 08/01/03 08:43:33
 Comment: 83342,10
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.45	1.92	6.98	35.9	-2.25	1.19	62.7
SDev	.72	3.61	.20	1.3	.04	.19	6.6
%RSD	49.7	188.	2.93	3.62	1.72	16.0	10.5
#1	-1.95	4.47	7.12	35.0	-2.22	1.06	67.3
#2	-.938	-.634	6.83	36.8	-2.28	1.33	58.0
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.78	9.90	16.2	8.11	2.43	43.5	4.82
SDev	.11	.50	3.3	4.96	.23	.9	2.19
%RSD	1.57	5.01	20.6	61.1	9.35	2.11	45.6
#1	6.86	9.55	18.5	4.61	2.27	42.8	6.37
#2	6.71	10.3	13.8	11.6	2.59	44.1	3.26
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.80	-.436	4.85	33.8	32.7	8502.	3647.
SDev	2.37	.228	3.92	.6	1.2	354.	158.
%RSP	131.	52.3	80.8	1.64	3.70	4.165	4.333
#1	.131	-.275	2.08	33.4	31.9	8251.	3535.
#2	3.48	-.597	7.63	34.2	33.6	8752.	3758.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13530.	3451.	163.	10.8	.796	2.81	460.
SDev	448.	146.	6.	2.2	2.17	.85	17.
%RSD	3.309	4.244	3.59	20.3	272.	30.1	3.79
#1	13210.	3347.	159.	9.24	2.33	2.21	448.
#2	13850.	3554.	167.	12.3	-.736	3.41	472.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-025
 Run Time: 08/01/03 08:47:28
 Comment: 83342,10
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.61	3.65	5.22	52.7	-2.15	1.38	68.5
SDev	6.57	6.58	.75	.5	.04	.14	7.6
%RSD	142.	180.	14.4	.946	1.72	9.97	11.1
#1	-.028	8.31	5.76	52.4	-2.12	1.28	73.9
#2	9.26	-1.00	4.69	53.1	-2.18	1.47	63.2
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.56	11.4	9.88	5.93	.675	58.0	2.56
SDev	.06	.0	3.23	.48	.206	.4	8.28
%RSD	.627	.100	32.7	8.13	30.5	.609	324.
#1	9.60	11.4	12.2	5.59	.821	57.7	-3.30
#2	9.51	11.4	7.59	6.27	.530	58.2	8.41
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.07	-.809	2.12	46.3	32.5	12010.	4830.
SDev	.32	.180	3.50	.4	.3	207.	88.
%RSD	30.0	22.3	165.	.878	.838	1.726	1.816
#1	-1.30	-.936	-.359	46.0	32.3	11860.	4768.
#2	-.844	-.682	4.60	46.5	32.7	12150.	4892.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17930.	4428.	217.	7.25	3.97	.138	686.
SDev	216.	79.	3.	.76	2.20	2.97	15.
%RSD	1.206	1.790	1.54	10.4	55.4	2150.	2.16
#1	17780.	4372.	215.	7.78	5.53	-1.96	675.
#2	18080.	4484.	220.	6.71	2.42	2.24	696.

Method: 6010B Sample Name: 166599-026

Operator: pps

Run Time: 08/01/03 08:51:22

Comment: 83342,10

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.00	1.74	5.83	42.2	-2.29	1.26	69.5
SDev	.65	3.34	4.84	.1	.10	.29	8.3
%RSD	21.5	192.	83.1	.348	4.16	23.1	11.9
#1	-2.54	4.11	9.25	42.1	-2.22	1.47	75.3
#2	-3.46	-.622	2.40	42.3	-2.36	1.06	63.6
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.16	9.97	5.89	5.16	.509	55.0	-5.05
SDev	.75	.17	2.65	1.65	.678	.7	2.45
%RSD	8.18	1.73	44.9	31.9	133.	1.22	48.6
#1	8.63	10.1	7.77	4.00	.030	54.6	-3.31
#2	9.69	9.85	4.02	6.32	.989	55.5	-6.78
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.83	-.078	.526	41.4	31.1	10400.	5626.
SDev	1.91	.877	3.93	.2	.4	167.	99.
%RSD	32.8	1120.	747.	.414	1.24	1.601	1.766
#1	4.48	-.698	-2.25	41.3	30.8	10280.	5556.
#2	7.18	.541	3.30	41.6	31.4	10520.	5697.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16150.	4235.	209.	5.41	.162	2.20	616.
SDev	167.	75.	3.	.21	2.44	.46	12.
%RSD	1.031	1.762	1.27	3.96	1510.	20.8	2.03
#1	16040.	4183.	207.	5.25	1.89	1.88	607.
#2	16270.	4288.	211.	5.56	-1.57	2.53	624.

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Method: 6010B Sample Name: 166599-027
 Run Time: 08/01/03 08:55:17
 Comment: 83342,10
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.72	-1.17	7.04	37.1	-2.32	1.20	64.4
SDev	7.11	1.18	.11	.4	.05	.20	7.3
%RSD	124.	100.	1.49	1.21	2.35	16.6	11.4
#1	.690	-2.00	7.12	36.8	-2.28	1.34	69.6
#2	10.7	-.341	6.97	37.4	-2.36	1.06	59.3
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.68	8.80	5.67	1.02	2.28	46.3	2.03
SDev	.50	.55	.30	2.12	.61	.7	.02
%RSD	5.78	6.21	5.29	208.	26.8	1.53	.753
#1	8.33	9.18	5.46	2.52	2.71	45.8	2.04
#2	9.03	8.41	5.88	-.477	1.85	46.8	2.02
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.297	-.918	2.71	42.9	28.7	9935.	5605.
SDev	5.149	.885	3.93	.7	.4	213.	120.
%RSD	1730.	96.4	145.	1.71	1.27	2.140	2.141
#1	3.34	-.292	-.072	42.4	28.4	9785.	5520.
#2	-3.94	-1.54	5.49	43.4	29.0	10090.	5690.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15680.	3789.	213.	2.57	1.12	.480	737.
SDev	244.	78.	4.	1.31	3.15	3.44	18.
%RSD	1.555	2.067	1.82	51.0	281.	717.	2.48
#1	15510.	3733.	211.	3.50	-1.11	2.91	724.
#2	15860.	3844.	216.	1.64	3.35	-1.95	750.

Method: 6010B Sample Name: 03ws1150 Operator: pps
 Run Time: 08/01/03 09:33:43
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491.	486.	263.	497.	49.9	49.8	100.
SDev	19.	10.	7.	1.	.0	.0	1.
%RSD	3.84	2.04	2.54	.148	.030	.013	.624

#1	478.	479.	258.	498.	49.9	49.8	101.
#2	505.	493.	267.	497.	49.9	49.8	99.7

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	104.	251.	237.	462.	254.	245.
SDev	.	.	4.	26.	32.	1.	10.
%RSD	.173	.144	1.42	11.0	6.89	.208	4.25

#1	250.	104.	248.	218.	440.	254.	238.
#2	249.	104.	253.	255.	485.	253.	252.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	238.	50.3	244.	249.	50.0	477.9	1018.
SDev	1.	.2	3.	.	.0	.3	.
%RSD	.603	.402	1.17	.109	.014	.0631	.0171

#1	237.	50.4	242.	249.	50.0	478.1	1018.
#2	239.	50.1	246.	250.	50.0	477.7	1017.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496.1	988.9	49.7	241.	488.	240.	509.
SDev	4.2	1.3	.1	19.	13.	4.	3.
%RSD	.8373	.1276	.228	7.69	2.64	1.84	.540

#1	499.0	989.8	49.8	228.	479.	237.	507.
#2	493.1	988.0	49.6	254.	497.	243.	511.

Analysis Report

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Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 09:39:23
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.72	1.71	.872	.033	-2.45	.045	-.307
SDev	2.75	3.48	.427	.041	.03	.139	.360
%RSD	58.3	204.	49.0	122.	1.34	311.	117.
#1	6.67	4.17	1.17	.062	-2.43	.143	-.052
#2	2.77	-.753	.569	.004	-2.47	-.053	-.561
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.367	2.14	-1.18	-1.07	2.11	-.163	-1.92
SDev	.437	.00	.08	.20	.71	.061	6.02
%RSD	119.	.129	6.52	18.8	33.5	37.6	313.
#1	-.058	2.14	-1.24	-.924	2.62	-.207	-6.18
#2	-.677	2.14	-1.13	-1.21	1.61	-.120	2.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.827	-.996	3.25	-.588	.487	2.219	56.84
SDev	.907	.252	3.35	.045	.205	.826	.35
%RSD	110.	25.3	103.	7.58	42.1	37.21	.6195
#1	.185	-.818	5.62	-.556	.632	1.635	56.60
#2	1.47	-1.17	.883	-.619	.342	2.803	57.09
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.06	12.47	.580	-1.10	2.71	-.090	1.19
SDev	4.62	.95	.042	.11	3.24	2.611	.42
%RSD	35.34	7.616	7.23	9.76	119.	2910.	34.9
#1	16.33	13.15	.610	-1.03	5.00	-1.94	1.49
#2	9.799	11.80	.550	-1.18	.423	1.76	.899

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 08/01/03 10:35:28

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	522.	501.	263.	505.	51.7	50.4	104.
SDev	5.	7.	6.	2.	.7	.3	.
%RSD	.952	1.37	2.45	.387	1.34	.636	.447
#1	525.	496.	267.	506.	52.2	50.7	104.
#2	518.	506.	258.	504.	51.2	50.2	103.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	256.	107.	250.	254.	486.	260.	256.
SDev	2.	.	5.	19.	19.	2.	1.
%RSD	.630	.290	2.12	7.31	3.90	.903	.234
#1	257.	107.	246.	241.	473.	262.	257.
#2	255.	107.	253.	267.	500.	259.	256.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	51.8	253.	258.	52.3	489.5	1089.
SDev	4.	.5	7.	2.	.9	16.8	17.
%RSD	1.80	.942	2.72	.717	1.70	3.441	1.542
#1	243.	52.1	249.	259.	52.9	477.6	1101.
#2	250.	51.4	258.	256.	51.7	501.4	1077.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	548.6	1052.	52.2	253.	508.	250.	525.
SDev	20.0	19.	.6	14.	3.	3.	.
%RSD	3.643	1.763	1.06	5.60	.573	1.10	.088
#1	562.7	1066.	52.6	243.	506.	248.	525.
#2	534.5	1039.	51.8	263.	510.	252.	524.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 10:39:43
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.2	10.4	-1.86	.167	-3.09	-.158	-.080
SDev	5.3	5.2	2.17	.029	.02	.283	.556
%RSD	40.4	50.3	117.	17.5	.532	179.	694.

#1	9.40	6.67	-3.39	.188	-3.10	.042	.313
#2	16.9	14.0	-.327	.147	-3.08	-.358	-.473

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.130	2.58	2.05	.450	5.78	.775	4.21
SDev	.028	.12	1.52	2.44	1.10	.056	4.74
%RSD	21.4	4.48	74.3	542.	19.0	7.28	113.

#1	.150	2.50	3.12	-1.27	6.56	.815	7.57
#2	.111	2.66	.972	2.17	5.00	.735	.856

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.09	.107	1.76	-.048	.888	-2.288	63.45
SDev	2.22	.373	2.46	.131	.112	3.088	1.35
%RSD	106.	348.	139.	273.	12.6	135.0	2.124

#1	.521	.371	.027	.045	.967	-.1043	62.50
#2	3.66	-.156	3.50	-.140	.809	-4.471	64.41

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.66	-10.92	.534	.982	11.3	2.80	2.24
SDev	3.95	3.18	.005	1.12	5.2	.10	.52
%RSD	20.11	29.11	1.02	114.	46.5	3.58	23.2

#1	22.46	-8.672	.538	.192	7.58	2.87	2.60
#2	16.87	-13.17	.530	1.77	15.0	2.73	1.87

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 08/01/03 11:18:24

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	550.	543.	557.	504.	526.	973.	489.
SDev	7.	14.	5.	1.	.	.	1.
%RSD	1.20	2.57	.918	.100	.040	.009	.129
#1	546.	534.	554.	504.	526.	973.	489.
#2	555.	553.	561.	504.	526.	973.	490.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	486.	526.	902.	1100.	476.	1050.	526.
SDev	.	1.	8.	39.	26.	.	10.
%RSD	.048	.251	.927	3.59	5.39	.038	1.88
#1	486.	525.	896.	1070.	458.	1050.	519.
#2	486.	527.	908.	1130.	495.	1050.	533.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	511.	894.	485.	508.	1030.	541500.	471400.
SDev	33.	81.	11.	1.	.	883.	225.
%RSD	6.48	9.06	2.29	.242	.035	.1631	.0478
#1	488.	952.	492.	507.	1030.	540900.	471500.
#2	535.	837.	477.	509.	1030.	542200.	471200.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	190300.	545500.	503.	1030.	546.	516.	2110.
SDev	174.	156.	.	29.	12.	25.	3.
%RSD	.0914	.0287	.038	2.82	2.11	4.92	.151
#1	190200.	545600.	503.	1010.	538.	498.	2110.
#2	190500.	545400.	503.	1050.	554.	534.	2110.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/01/03 11:27:08

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	780.	785.	381.	743.	76.1	73.5	151.
SDev	43.	2.	3.	3.	.4	.1	1.
%RSD	5.47	.218	.821	.440	.478	.075	.644
#1	749.	783.	379.	740.	75.9	73.5	150.
#2	810.	786.	383.	745.	76.4	73.5	152.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374.	155.	360.	370.	736.	381.	368.
SDev	2.	2.	23.	80.	56.	1.	5.
%RSD	.647	1.58	6.29	21.6	7.60	.250	1.34
#1	373.	153.	344.	313.	696.	381.	364.
#2	376.	157.	376.	426.	775.	382.	371.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	376.	77.0	366.	374.	74.8	770.2	1539.
SDev	20.	.4	6.	3.	.6	7.0	2.
%RSD	5.26	.501	1.57	.862	.755	.9111	.1328
#1	362.	76.7	362.	372.	74.4	775.2	1538.
#2	390.	77.2	371.	377.	75.2	765.3	1540.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	752.2	1537.	74.6	366.	783.	373.	758.
SDev	7.7	3.	.6	61.	15.	15.	13.
%RSD	1.026	.1981	.782	16.6	1.96	3.97	1.74
#1	746.8	1539.	74.1	323.	772.	363.	749.
#2	757.7	1535.	75.0	409.	794.	384.	768.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 11:39:57
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.1	20.9	2.64	.045	-.014	-.282	-.395
SDev	2.1	4.1	1.84	.050	.048	.204	.033
%RSD	9.25	19.8	69.8	110.	353.	72.4	8.39
#1	24.6	23.9	3.94	.010	.020	-.427	-.371
#2	21.6	18.0	1.34	.081	-.048	-.138	-.418
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.087	2.17	-2.09	.933	1.46	.520	5.12
SDev	.471	.56	2.59	2.81	.77	.298	.29
%RSD	541.	25.9	124.	301.	52.5	57.3	5.67
#1	-.246	1.77	-.262	2.92	2.00	.730	5.33
#2	.420	2.56	-3.92	-1.05	.919	.309	4.92
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.68	-.318	.032	-1.09	.250	2.271	-2.047
SDev	3.06	.261	4.19	.13	.046	3.702	1.093
%RSD	114.	81.9	13100.	11.7	18.3	163.0	53.41
#1	-4.84	-.502	-2.93	-1.18	.282	-.3470	-1.274
#2	-.516	-.134	2.99	-.997	.217	4.889	-2.820
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.02	-13.67	.476	-.075	21.7	-.078	-.299
SDev	4.65	3.86	.069	2.736	3.5	1.942	.055
%RSD	33.17	28.27	14.5	3660.	16.1	2500.	18.2
#1	10.74	-16.40	.428	1.86	24.1	-1.45	-.261
#2	17.31	-10.94	.525	-2.01	19.2	1.30	-.338

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename Type	Sample Num	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr212196 SAMPLE	166643-002	83342 Miscel	01-AUG-2003 09:04	1.0	43.85965		
034	tr212197 SAMPLE	166643-003	83342 Miscel	01-AUG-2003 09:08	1.0	44.05286		
035	tr212198 SAMPLE	166597-001	83342 Soil	01-AUG-2003 09:12	1.0	48.30918		3:FE=262700
036	tr212199 SAMPLE	166639-001	83342 Soil	01-AUG-2003 09:16	1.0	48.30918		
037	tr212200 SAMPLE	166639-002	83342 Soil	01-AUG-2003 09:20	1.0	45.66210		
038	tr212201 CCV			01-AUG-2003 09:33	1.0	1.0	5	
039	tr212202 CCB			01-AUG-2003 09:39	1.0	1.0		
040	tr212203 BLANK	QC220867	83326 Wipe	01-AUG-2003 09:49	1.0	50.0		
041	tr212204 SAMPLE	166649-002	83342 Soil	01-AUG-2003 09:53	1.0	45.04505		2:FE=250500
042	tr212205 SAMPLE	166649-003	83342 Soil	01-AUG-2003 09:57	1.0	49.50495		3:FE=234100
043	tr212206 SAMPLE	166649-004	83342 Soil	01-AUG-2003 10:01	1.0	43.29004		2:FE=283000
044	tr212207 SAMPLE	166649-005	83342 Soil	01-AUG-2003 10:05	1.0	46.08295		2:FE=243700
045	tr212208 SAMPLE	166649-006	83342 Soil	01-AUG-2003 10:09	1.0	46.29630		2:FE=248000
046	tr212209 SAMPLE	166649-007	83342 Soil	01-AUG-2003 10:13	1.0	47.84689		4:FE=439200
047	tr212210 SAMPLE	166649-008	83342 Soil	01-AUG-2003 10:17	1.0	40.0		4:CA=430200
048	tr212211 SAMPLE	166649-009	83342 Soil	01-AUG-2003 10:20	1.0	49.26108		2:FE=409400
049	tr212212 MSS	166554-002	83290 Water	01-AUG-2003 10:25	20.0	1.0	1	
050	tr212213 CCV			01-AUG-2003 10:35	1.0	1.0	5	
051	tr212214 CCB			01-AUG-2003 10:39	1.0	1.0		
052	tr212215 SER	QC220729	83290 Water	01-AUG-2003 10:43	50.0	1.0		
053	tr212216 SER	QC220729	83290 Water	01-AUG-2003 10:46	100.0	1.0	1	
054	tr212217 SAMPLE	166599-014	83290 Water	01-AUG-2003 10:50	1.0	1.0	1	
055	tr212218 SAMPLE	166560-022	83290 Water	01-AUG-2003 10:54	1.0	1.0		
056	tr212219 SAMPLE	166561-023	83290 Water	01-AUG-2003 10:57	1.0	1.0		
057	tr212220 SAMPLE	166561-028	83290 Water	01-AUG-2003 11:00	1.0	1.0	1	
058	tr212221 SAMPLE	166552-004	83290 Water	01-AUG-2003 11:04	1.0	1.0		
059	tr212222 SAMPLE	166552-005	83290 Water	01-AUG-2003 11:07	1.0	1.0		
060	tr212223 ICSAB			01-AUG-2003 11:18	1.0	1.0	4	4:MG=545500
061	tr212224 CCV			01-AUG-2003 11:27	1.0	1.0	8	
062	tr212225 CCB			01-AUG-2003 11:39	1.0	1.0		
063	tr212226 BLANK	QC220926	83340 Water	01-AUG-2003 11:44	1.0	1.0	1	
064	tr212227 BS	QC220927	83340 Water	01-AUG-2003 11:50	1.0	1.0		

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Mawr Date: 8/1/03
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73307079 Instrument: MET07 TJA Trace ICP Begun: 01-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212228	BSD	QC220928	83340	Water	01-AUG-2003	11:53	1.0						
066	tr212229	SAMPLE	166649-001	83340	Water	01-AUG-2003	11:57	1.0						
067	tr212230	SAMPLE	166649-010	83340	Water	01-AUG-2003	12:00	1.0						
068	tr212231	SAMPLE	166649-010	83340	Water	01-AUG-2003	12:05	1.0			1			
069	tr212232	BLANK	QC220909	83337	Soil	01-AUG-2003	12:09	50.0			1			
070	tr212233	BS	QC220910	83337	Soil	01-AUG-2003	12:16	50.0						
071	tr212234	BSD	QC220911	83337	Soil	01-AUG-2003	12:19	50.0						
072	tr212235	ICSAB				01-AUG-2003	12:23	1.0				4		4:MG=545300
073	tr212236	CCV				01-AUG-2003	12:30	1.0				5		
074	tr212237	CCB				01-AUG-2003	12:34	1.0						
075	tr212238	BS	QC220725	83290	Water	01-AUG-2003	12:38	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS0897 4=03WS1089 5=03WS1150 6=03SS75 7=03SS74 8=03WS1151

Analyst: Maule Date: 8/15
Page 3 of 3

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-028	Cident : CHPSB10[3]
Seqnum : 73307079090	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212253	Batchnum : 83337	Injected : 01-AUG-2003 13:45
IDF : 1.0	PDF : 43.47826	Units : mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.6		u
Barium.....	18	0.43		u
Copper.....	2.8	0.43	0.11	u
Lead.....	6.0	0.13		u
Zinc.....	14	0.87		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-029	Cident : CHPSB10[4]
Seqnum : 73307079091	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212254	Batchnum : 83337	Injected : 01-AUG-2003 13:48
IDF : 1.0	PDF : 49.50495	Units : mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	3.0		u
Barium.....	18	0.50		u
Copper.....	2.5	0.50	0.11	u
Lead.....	9.3	0.15		u
Zinc.....	13	0.99		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-030	Cident : CHPSB16[0.3]
Seqnum : 73307079092	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212255	Batchnum : 83337	Injected : 01-AUG-2003 13:52
IDF : 1.0	PDF : 47.39336	Units : mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.8		u
Barium.....	49	0.47		u
Copper.....	7.5	0.47	0.11	u
Lead.....	130	0.14		u
Zinc.....	52	0.95		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-031	Cident : DUP072903C
Seqnum : 73307079093	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212256	Batchnum : 83337	Injected : 01-AUG-2003 13:55
IDF : 1.0	PDF : 47.16981	Units : mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.8		u
Barium.....	29	0.47		u
Copper.....	4.7	0.47	0.11	u
Lead.....	40	0.14		u
Zinc.....	25	0.94		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-032	Cident	: CHPSB16[1]
Seqnum	: 73307079094	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212257	Batchnum	: 83337	Injected	: 01-AUG-2003 13:59
IDF	: 1.0	PDF	: 46.08295	Units	: mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.8		u
Barium.....	29	0.46		u
Copper.....	4.0	0.46	0.11	u
Lead.....	8.5	0.14		u
Zinc.....	18	0.92		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-033	Cident	: CHPSB16[2]
Seqnum	: 73307079095	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212258	Batchnum	: 83337	Injected	: 01-AUG-2003 14:02
IDF	: 1.0	PDF	: 44.05286	Units	: mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.6		u
Barium.....	23	0.44		u
Copper.....	3.9	0.44	0.11	u
Lead.....	11	0.13		u
Zinc.....	16	0.88		u

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: QC220909	Cident :
Segnum : 73307079069	Matrix : Soil	Acctnum :
Filename : tr212232	Batchnum : 83337	Injected : 01-AUG-2003 12:09
IDF : 1.0	PDF : 50.0	Units : mg/Kg

Analyte	Result	RL	Flags
Aluminum	ND	5.0	u
Antimony	ND	3.0	u
Arsenic	ND	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	ND	25	u
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	ND	0.50	u
Iron	ND	5.0	u
Lead	ND	0.15	u
Magnesium	ND	25	u
Manganese	ND	0.50	u
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium.....	0.29	0.25	ab*
Vanadium	ND	0.50	u
Zinc	ND	1.0	u
Titanium	ND	0.50	u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73307079070	Seqnum : 73307079071
Filename : tr212233	Filename : tr212234
IDF : 1.0	IDF : 1.0
PDF : 50.0	PDF : 50.0
Run type : BS	Run type : BSD
Samplenum: QC220910	Samplenum: QC220911
Matrix : Soil	Matrix : Soil
Batchnum : 83337	Batchnum : 83337
Inj : 01-AUG-2003 12:16	Inj : 01-AUG-2003 12:19
Units : mg/Kg	

Analyte	Spike Conc	BS %Rec	BSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	936.0 94	913.0 91	57-120	2	20	u
Antimony	100.0	110.5 111	107.0 107	73-134	3	20	u
Arsenic	50.00	49.20 98	48.25 97	74-120	2	20	u
Barium	100.0	97.50 98	94.00 94	72-120	4	20	u
Beryllium	2.500	2.530 101	2.495 100	74-120	1	20	u
Cadmium	10.00	9.550 96	9.300 93	72-120	3	20	u
Calcium	1000	973.5 97	957.5 96	66-120	2	20	u
Chromium	100.0	97.00 97	95.00 95	74-120	2	20	u
Cobalt	25.00	23.85 95	23.25 93	70-120	3	20	u
Copper	12.50	12.25 98	12.00 96	70-120	2	20	u
Iron	1000	959.5 96	940.5 94	70-120	2	20	u
Lead	100.0	103.0 103	99.50 100	71-120	3	20	u
Magnesium	1000	985.0 99	967.0 97	69-120	2	20	u
Manganese	25.00	23.90 96	23.40 94	69-120	2	20	u
Molybdenum	20.00	20.35 102	19.70 99	76-120	3	20	u
Nickel	25.00	24.30 97	23.75 95	72-120	2	20	u
Selenium	50.00	48.90 98	46.55 93	66-120	5	20	u
Silver	10.00	9.900 99	9.450 95	66-120	5	20	u
Thallium	50.00	46.50 93	45.45 91	69-120	2	20	u
Vanadium	25.00	24.60 98	23.90 96	74-120	3	20	u
Zinc	25.00	23.85 95	23.25 93	68-120	3	20	u
Titanium	50.00	49.60 99	48.30 97	75-120	3	20	u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Sampenum: 166599-007	Cident : BAPSB14[1] [MSD]
Seqnum : 73307079077	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212240	Batchnum : 83337	Injected : 01-AUG-2003 12:47
IDF : 1.0	PDF : 48.78049	Units : mg/Kg

Analyte	Result	RL	B=tr212232	Flags
Antimony	ND	2.9		u
Barium.....	33	0.49		u
Copper.....	6.0	0.49	0.11	u
Lead.....	5.5	0.15		u
Zinc.....	28	0.98		u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
 Segnum : 73307079083
 Filename : tr212246
 IDF : 1.0
 PDF : 47.61905
 Run type : MS
 Samplelenum: QC220912
 Matrix : Soil
 Batchnum : 83337
 Inj : 01-AUG-2003 13:10
 Units : mg/Kg

Instid : MET07
 Segnum : 73307079084
 Filename : tr212247
 IDF : 1.0
 PDF : 47.84689
 Run type : MSD
 Samplelenum: QC220913
 Matrix : Soil
 Batchnum : 83337
 Inj : 01-AUG-2003 13:14

MSS : 166599-007

Analyte	MSS Segnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	73307079079	94.00	956.9	11590 >LR 230	12000 >LR 271	15-150	--	44	>u
Antimony	73307079077	0.9268	95.69	41.10 42	37.42 38	15-123	10	45	u
Arsenic	73307079077	3.288	47.85	45.52 89	45.69 89	40-126	0	28	u
Barium	73307079077	32.88	95.69	128.6 100	125.4 97	19-138	3	30	u
Beryllium	73307079077	0.3537	2.392	2.729 100	2.694 98	58-120	2	20	u
Cadmium	73307079077	1.644	9.569	10.48 93	10.33 91	47-120	2	24	u
Calcium	73307079077	2335	956.9	3443 116	3529 125	16-150	2	43	u
Chromium	73307079077	69.27	95.69	157.6 93	160.3 95	35-131	1	29	u
Cobalt	73307079077	11.07	23.92	33.71 95	33.49 94	39-120	1	29	u
Copper	73307079077	6.049	11.96	18.10 101	17.85 99	32-150	2	45	u
Iron	73307079079	18540	956.9	19630 >LR 115	19980 >LR 151	15-150	--	48	>u
Lead	73307079077	5.512	95.69	102.4 102	101.0 100	23-137	2	40	u
Magnesium	73307079077	3727	956.9	4971 >LR 131	4981 >LR 131	20-150	--	34	>b*
Manganese	73307079077	263.9	23.92	307.6 184	306.7 179	15-150	0	45	u
Molybdenum	73307079077	0.1307	19.14	16.14 84	16.27 84	28-120	0	21	u
Nickel	73307079077	88.29	23.92	117.6 123	119.1 129	32-136	1	35	u
Selenium	73307079078	ND	47.85	41.43 87	41.58 87	38-120	0	23	u
Silver	73307079077	ND	9.569	9.095 96	8.852 93	55-120	3	26	u
Thallium	73307079077	0.2068	47.85	43.57 91	43.88 91	50-120	0	26	u
Vanadium	73307079077	42.20	23.92	64.29 93	64.59 94	25-130	0	26	u
Zinc	73307079077	27.51	23.92	51.43 100	51.20 99	20-147	1	32	u

: =recovery not meaningful >=>LR b=noncompliant u=use
 Page 1 of 2

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07 Seqnum : 73307079083 Filename : tr212246 IDF : 1.0 PDF : 47.61905 Run type : MS Samplenun: QC220912 Matrix : Soil Batchnum : 83337 Inj : 01-AUG-2003 13:10 Units : mg/Kg MSS : 166599-007	Instid : MET07 Seqnum : 73307079084 Filename : tr212247 IDF : 1.0 PDF : 47.84689 Run type : MSD Samplenun: QC220913 Matrix : Soil Batchnum : 83337 Inj : 01-AUG-2003 13:14
---	---

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Titanium	73307079079	541.5	47.85	495.2 >LR -97	564.6 >LR 48	15-150	--	44	>u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73307079102
Filename : tr212265
IDF : 10.0
PDF : 47.61905
Run type : MS
Samplenum: QC220912
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 14:33
Units : mg/Kg

Instid : MET07
Seqnum : 73307079103
Filename : tr212266
IDF : 10.0
PDF : 47.84689
Run type : MSD
Samplenum: QC220913
Matrix : Soil
Batchnum : 83337
Inj : 01-AUG-2003 14:37

MSS : 166599-007

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim2Rec	RPD	Lim	Flags
Aluminum	73307079079	9400	956.9	11820 255	11720 242	15-150	1	44	:
Antimony	73307079079	ND	95.69	45.67 48	42.39 44	15-123	8	45	
Arsenic	73307079077	3.288	47.85	46.90 92	47.08 92	40-126	0	28	
Barium	73307079079	33.22	95.69	133.8 106	133.0 104	19-138	1	30	
Beryllium	73307079079	0.4483	2.392	3.343 122*	3.254 117	58-120	3	20	f
Cadmium	73307079079	1.654	9.569	11.14 100	11.15 99	47-120	0	24	
Calcium	73307079079	2420	956.9	3625 127	3566 120	16-150	2	43	
Chromium	73307079079	70.73	95.69	167.6 102	167.9 102	35-131	0	29	
Cobalt	73307079079	10.98	23.92	35.00 101	35.41 102	39-120	1	29	
Copper	73307079079	6.976	11.96	26.05 160*	20.57 114	32-150	24	45	f
Iron	73307079079	18540	956.9	20670 224	20560 212	15-150	1	48	:
Lead	73307079079	4.512	95.69	198.1 203*	116.7 117	23-137	52*	40	afgb*
Magnesium	73307079079	3825	956.9	5200 144	5153 139	20-150	1	34	:u
Manganese	73307079079	271.7	23.92	321.9 211	319.1 198	15-150	1	45	:
Molybdenum	73307079079	ND	19.14	14.43 76	15.74 82	28-120	8	21	
Nickel	73307079079	91.22	23.92	125.7 145*	125.4 143*	32-136	0	35	f
Selenium	73307079079	ND	47.85	44.10 93	44.78 94	38-120	1	23	
Silver	73307079079	ND	9.569	9.048 95	9.665 101	55-120	6	26	
Thallium	73307079079	2.756	47.85	37.38 73	42.58 83	50-120	13	26	
Vanadium	73307079079	42.10	23.92	66.19 101	66.51 102	25-130	0	26	
Zinc	73307079079	28.10	23.92	55.71 116	54.55 111	20-147	2	32	

:=recovery not meaningful a=rsd out b=noncompliant f=recovery failure g=RPD failure u=use
Page 1 of 2

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73307079102	Seqnum : 73307079103
Filename : tr212265	Filename : tr212266
IDF : 10.0	IDF : 10.0
PDF : 47.61905	PDF : 47.84689
Run type : MS	Run type : MSD
Samplenum: QC220912	Samplenum: QC220913
Matrix : Soil	Matrix : Soil
Batchnum : 83337	Batchnum : 83337
Inj : 01-AUG-2003 14:33	Inj : 01-AUG-2003 14:37
Units : mg/Kg	

MSS : 166599-007

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Titanium	73307079079	541.5	47.85	500.0 -87	502.4 -82	15-150	0	44	:

Method: 6010B Standard: blank
Run Time: 08/01/03 05:47:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	-.001	.000	-.001	.001	-.025	.001	.000
SDev	.001	.000	.000	.000	.000	.001	.000
%RSD	192.	52.1	8.79	31.7	1.91	52.2	18.9
#1	.000	.000	-.001	.001	-.025	.001	.000
#2	-.002	.001	-.001	.000	-.024	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	-.000	-.007	.001	-.000	.000	-.000	-.002
SDev	.000	.000	.001	.001	.000	.000	.000
%RSD	61.9	3.54	185.	440.	149.	643.	27.9
#1	-.000	-.007	.001	-.000	.000	.000	-.001
#2	-.000	-.007	-.000	.000	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.001	.000	-.000	.000	.006	.0325	-.0133
SDev	.001	.000	.000	.000	.000	.0000	.0000
%RSD	50.7	9.80	38.6	2.29	.237	.1075	.2697
#1	.001	.000	-.000	.000	.006	.0325	-.0133
#2	.001	.000	-.001	.000	.006	.0325	-.0133
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	-.0008	.0001	.000	.071			
SDev	.0001	.0001	.000	.000			
%RSD	14.30	35.31	84.8	.061			
#1	-.0009	.0002	.000	.071			
#2	-.0007	.0001	.000	.071			

Method: 6010B Standard: cst hi
 Run Time: 08/01/03 05:53:15

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.150	.091	.039	5.55	.640	.236	.050
SDev	.007	.005	.001	.02	.003	.001	.000
%RSD	4.92	5.54	1.41	.357	.488	.471	.273
#1	.144	.087	.038	5.53	.638	.235	.050
#2	.155	.094	.039	5.56	.643	.237	.050
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.139	.111	.156	.162	.279	.388	.040
SDev	.000	.000	.000	.002	.002	.001	.001
%RSD	.214	.011	.158	.978	.649	.312	1.32
#1	.139	.111	.156	.163	.278	.387	.040
#2	.139	.111	.157	.161	.280	.389	.039
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.051	.068	.027	.192	.034	.0556	.0457
SDev	.000	.001	.000	.001	.000	.0003	.0002
%RSD	.153	.831	1.34	.291	.557	.5982	.4335
#1	.051	.068	.026	.192	.034	.0554	.0455
#2	.051	.068	.027	.192	.034	.0559	.0458
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0241	.0379	.193	1.90			
SDev	.0003	.0003	.001	.01			
%RSD	1.040	.7836	.392	.306			
#1	.0239	.0377	.193	1.90			
#2	.0242	.0381	.194	1.91			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6625.80	4.25512	08/01/03 05:53:15
Sb206A	206.832	Multiple	Standards	10861.1	-4.95256	08/01/03 05:53:15
As1890	189.042	Multiple	Standards	12606.0	12.0996	08/01/03 05:53:15
Ba4934	493.409	Multiple	Standards	180.343	-.106017	08/01/03 05:53:15
Be3130	313.042	Multiple	Standards	145.252	3.58223	08/01/03 05:53:15
Cd2265	226.502	Multiple	Standards	424.876	-.420509	08/01/03 05:53:15
Cr2677	267.716	Multiple	Standards	4035.62	-1.45267	08/01/03 05:53:15
Co2286	228.616	Multiple	Standards	3592.62	.689783	08/01/03 05:53:15
Cu3247	324.754	Multiple	Standards	1698.73	11.3432	08/01/03 05:53:15
Pb2203	220.351	Multiple	Standards	3210.65	-2.02149	08/01/03 05:53:15
Pb220A	220.352	Multiple	Standards	3068.61	.349390	08/01/03 05:53:15
Mo2020	202.030	Multiple	Standards	3588.89	-.796321	08/01/03 05:53:15
Ni2316	231.604	Multiple	Standards	1287.52	.069626	08/01/03 05:53:15
Se1960	196.021	Multiple	Standards	12134.7	20.6758	08/01/03 05:53:15
Se196A	196.022	Multiple	Standards	9986.62	-9.52698	08/01/03 05:53:15
Ag3280	328.068	Multiple	Standards	1476.84	-.513876	08/01/03 05:53:15
Tl1908	190.864	Multiple	Standards	18521.3	8.55638	08/01/03 05:53:15
V_2924	292.402	Multiple	Standards	2605.16	-.984608	08/01/03 05:53:15
Zn2138	213.856	Multiple	Standards	3715.97	-22.0249	08/01/03 05:53:15
Al3082	308.215	Multiple	Standards	43764.1	-1421.94	08/01/03 05:53:15
Ca3179	317.933	Multiple	Standards	33923.4	451.181	08/01/03 05:53:15
Fe2714	271.441	Multiple	Standards	41884.3	34.6737	08/01/03 05:53:15
Mg2790	279.079	Multiple	Standards	52929.5	-7.62003	08/01/03 05:53:15
Mn2576	257.610	Multiple	Standards	517.941	-.046598	08/01/03 05:53:15
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/01/03 05:53:15
Ti3349	334.941	Multiple	Standards	545.203	-38.5847	08/01/03 05:53:15

Analysis Report

08/01/03 06:02:51 AM

page 1

Method: 6010B Sample Name: 03ws1109
 Run Time: 08/01/03 05:59:41
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1000.	1010.	506.	1000.	100.	101.	201.
SDev	54.	57.	9.	3.	.	.	1.
%RSD	5.37	5.63	1.88	.280	.182	.324	.536
#1	967.	965.	512.	999.	100.	101.	201.
#2	1040.	1050.	499.	1000.	100.	101.	202.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	201.	504.	503.	1000.	501.	513.
SDev	.	.	1.	1.	3.7	2.	4.
%RSD	.010	.118	.228	.183	.375	.381	.726
#1	504.	201.	503.	503.	997.	500.	515.
#2	504.	201.	505.	504.	1000.	503.	510.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.	100.	502.	501.	100.	994.5	2001.
SDev	3.	.	1.	2.	.	8.2	5.
%RSD	.551	.146	.106	.303	.092	.8229	.2717
#1	501.	100.	501.	499.	100.	988.7	1997.
#2	505.	100.	502.	502.	100.	1000.	2004.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1017.	2009.	100.	503.	1010.	506.	1000.
SDev	4.	.	.	1.	56.	1.	4.
%RSD	.4219	.0046	.143	.198	5.54	.120	.379
#1	1020.	2009.	100.	503.	966.	506.	999.
#2	1014.	2009.	100.	504.	1040.	506.	1000.

Analysis Report

08/01/03 06:07:32 AM

page 1

Method: 6010B Sample Name: 03ws1149

Operator: pps

Run Time: 08/01/03 06:04:16

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	561.	538.	261.	493.	51.2	49.1	100.
SDev	8.	2.	2.	1.	.0	.6	.
%RSD	1.36	.317	.735	.128	.065	1.21	.335
#1	566.	539.	262.	492.	51.2	49.5	101.
#2	555.	537.	259.	493.	51.2	48.7	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249.	102.	247.	248.	487.	252.	246.
SDev	1.	.	5.	9.	15.	.	4.
%RSD	.474	.227	1.89	3.50	3.11	.180	1.52
#1	248.	102.	244.	242.	476.	251.	249.
#2	250.	102.	251.	254.	498.	252.	243.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	49.1	242.	247.	49.6	486.1	984.1
SDev	14.	1.2	3.	.	.1	10.8	3.2
%RSD	5.78	2.37	1.06	.019	.264	2.228	.3295
#1	259.	48.3	244.	247.	49.5	478.4	986.4
#2	238.	49.9	240.	247.	49.7	493.7	981.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.6	1012.	49.3	248.	546.	248.	508.
SDev	6.0	.	.1	7.	4.	11.	2.
%RSD	1.223	.0396	.109	2.96	.673	4.37	.325
#1	489.3	1012.	49.2	243.	548.	255.	507.
#2	497.9	1012.	49.3	253.	543.	240.	509.

Analysis Report

08/01/03 06:24:22 AM

page 1

Method: 6010B Sample Name: icb
 Run Time: 08/01/03 06:21:18
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.13	4.59	.598	-.033	.942	-.046	-.317
SDev	.35	2.69	1.55	.147	.016	.029	.489
%RSD	11.3	58.6	260.	442.	1.72	63.6	154.
#1	3.38	2.69	-.500	-.137	.930	-.067	-.662
#2	2.88	6.50	1.70	.071	.953	-.025	.029
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.520	-.385	-1.59	.318	1.73	-.300	6.04
SDev	.716	.271	2.58	1.92	1.09	.459	.31
%RSD	138.	70.5	163.	602.	62.9	153.	5.08
#1	-1.03	-.576	-3.41	1.67	2.50	-.625	6.26
#2	-.014	-.193	.239	-1.04	.961	.024	5.83
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.52	-.234	4.39	-.634	.428	33.54	-23.94
SDev	5.44	1.087	6.85	.137	.078	.34	2.09
%RSD	358.	464.	156.	21.6	18.2	1.024	8.740
#1	-5.37	-1.00	9.24	-.730	.373	33.30	-22.46
#2	2.33	.534	-.454	-.537	.483	33.78	-25.42
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.638	-1.788	.159	-.317	4.11	1.00	.903
SDev	3.230	.914	.058	.417	1.68	3.53	.082
%RSD	197.2	51.12	36.5	132.	40.9	352.	9.11
#1	-.6461	-2.435	.118	-.022	2.92	-1.49	.845
#2	3.922	-1.142	.201	-.612	5.29	3.49	.961

Analysis Report

08/01/03 06:31:03 AM

page 1

Method: 6010B Sample Name: 03ws0897
 Run Time: 08/01/03 06:25:21
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	75.9	82.2	4.10	9.95	1.94	4.75	9.49
SDev	7.2	4.8	5.66	.03	.02	.10	.04
%RSD	9.43	5.82	138.	.263	1.19	2.17	.408
#1	70.9	78.8	.097	9.97	1.92	4.68	9.52
#2	81.0	85.6	8.11	9.93	1.95	4.82	9.46
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.2	9.38	1.80	4.64	16.9	20.3	4.73
SDev	.9	.07	1.46	.31	.1	.6	3.31
%RSD	4.57	.742	81.0	6.65	.371	3.16	70.1
#1	19.8	9.33	2.83	4.85	17.0	20.8	7.07
#2	18.5	9.43	.770	4.42	16.9	19.8	2.39
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.70	4.75	7.20	9.29	21.3	144.9	169.8
SDev	3.68	.29	5.89	.10	.2	7.8	.4
%RSD	136.	6.06	81.7	1.08	1.01	5.402	.2406
#1	.095	4.95	11.4	9.22	21.4	150.4	169.5
#2	5.30	4.55	3.04	9.36	21.1	139.4	170.1
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	103.8	209.0	9.86	3.69	80.1	3.38	1.13
SDev	1.6	6.7	.11	.69	5.6	1.35	.07
%RSD	1.570	3.223	1.09	18.7	6.96	40.0	5.99
#1	102.7	213.8	9.93	4.18	76.2	2.42	1.08
#2	105.0	204.3	9.78	3.20	84.1	4.33	1.18

Analysis Report

08/01/03 06:35:16 AM

page 1

Method: 6010B Sample Name: 03ws1089
 Run Time: 08/01/03 06:32:01
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	520.	575.	549.	505.	500.	987.	482.
SDev	85.	1.	2.	2.	4.	5.	5.
%RSD	16.3	.095	.308	.407	.871	.555	.999
#1	460.	575.	550.	504.	497.	983.	478.
#2	580.	575.	548.	507.	503.	990.	485.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.	518.	933.	806.	458.	1040.	548.
SDev	4.	4.	16.	119.	37.	9.	31.
%RSD	.787	.837	1.66	14.8	8.17	.905	5.69
#1	481.	515.	944.	722.	432.	1040.	570.
#2	486.	521.	922.	890.	485.	1050.	526.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	1040.	495.	500.	1030.	508600.	453100.
SDev	57.	8.	15.	3.	8.	5183.	4564.
%RSD	11.9	.747	3.00	.524	.734	1.019	1.007
#1	434.	1040.	485.	498.	1020.	504900.	449800.
#2	514.	1050.	506.	502.	1030.	512200.	456300.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	187900.	520300.	484.	848.	557.	499.	2030.
SDev	2136.	4918.	4.	74.	29.	27.	25.
%RSD	1.137	.9451	.909	8.76	5.15	5.48	1.21
#1	186400.	516800.	481.	796.	536.	479.	2010.
#2	189500.	523800.	487.	901.	577.	518.	2050.

Analysis Report

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page 1

Method: 6010B

Sample Name: 03w1150

Operator: pps

Run Time: 08/01/03 07:19:44

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	523.	520.	256.	501.	51.6	50.5	102.
SDev	21.	13.	2.	.	.0	.4	.
%RSD	3.97	2.56	.681	.007	.004	.750	.192
#1	509.	511.	255.	501.	51.6	50.3	101.
#2	538.	530.	257.	501.	51.6	50.8	102.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	254.	103.	249.	243.	477.	256.	245.
SDev	1.	1.	5.	18.	28.	1.	10.
%RSD	.298	.803	1.98	7.41	5.82	.301	4.01
#1	253.	102.	246.	230.	458.	255.	238.
#2	254.	104.	253.	256.	497.	256.	252.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	49.5	251.	251.	50.9	548.4	1011.
SDev	6.	.8	2.	.	.1	4.1	29.
%RSD	2.40	1.60	.643	.052	.222	.7535	2.820
#1	246.	49.0	253.	250.	50.8	551.4	1031.
#2	254.	50.1	250.	251.	51.0	545.5	990.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	525.7	1098.	50.8	245.	521.	248.	514.
SDev	.2	86.	.4	14.	16.	7.	2.
%RSD	.0339	7.806	.857	5.57	3.04	2.93	.328
#1	525.8	1158.	51.1	235.	510.	243.	512.
#2	525.6	1037.	50.5	255.	532.	254.	515.

Analysis Report

08/01/03 07:31:39 AM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 07:28:27
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.9	10.2	-3.56	-.024	-.651	-.431	-.424
SDev	.3	.8	6.15	.042	.021	.117	.485
%RSD	2.66	8.09	173.	175.	3.27	27.1	114.
#1	11.1	9.64	-7.91	-.053	-.636	-.348	-.767
#2	10.7	10.8	.790	.006	-.666	-.513	-.082
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.314	.533	.580	-1.13	3.65	-.174	-7.54
SDev	.185	.092	1.27	1.63	.06	.233	.53
%RSD	58.9	17.2	219.	145.	1.74	134.	7.05
#1	-.183	.468	1.48	.028	3.69	-.010	-7.92
#2	-.444	.598	-.316	-2.28	3.60	-.339	-7.17
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.75	-.720	2.21	-.907	.178	24.80	10.03
SDev	7.89	.723	3.32	.783	.119	4.71	1.00
%RSD	451.	100.	150.	86.3	66.7	18.98	9.938
#1	7.33	-1.23	-.134	-1.46	.094	28.13	10.73
#2	-3.83	-.209	4.56	-.353	.262	21.47	9.322
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.684	-7.254	.428	-.558	10.5	-1.35	.613
SDev	1.058	2.826	.165	1.511	.5	5.09	.022
%RSD	39.40	38.95	38.5	271.	4.35	378.	3.64
#1	-1.936	-5.256	.545	.510	10.1	2.25	.597
#2	-3.432	-9.252	.312	-1.63	10.8	-4.94	.628

Analysis Report

08/01/03 08:35:29 AM

page 1

Method: 6010B

Sample Name: 03ws1151

Operator: pps

Run Time: 08/01/03 08:26:16

Comment: 83342,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	823.	789.	374.	733.	75.3	72.6	148.
SDev	7.	6.	3.	1.	.3	.2	1.
%RSD	.891	.801	.716	.129	.389	.312	.453
#1	828.	785.	372.	733.	75.5	72.4	147.
#2	818.	794.	376.	732.	75.1	72.8	148.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	368.	152.	353.	332.	694.	373.	352.
SDev	1.	.	24.	53.	52.	.	17.
%RSD	.283	.123	6.68	15.9	7.49	.059	4.74
#1	367.	152.	336.	295.	657.	373.	340.
#2	369.	152.	369.	370.	730.	373.	363.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	350.	72.6	367.	367.	73.2	708.8	1476.
SDev	23.	3.3	6.	1.	.2	1.2	3.
%RSD	6.56	4.56	1.51	.355	.223	.1641	.2226
#1	334.	70.3	371.	366.	73.3	708.0	1478.
#2	366.	75.0	363.	368.	73.1	709.6	1474.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	728.0	1488.	73.3	339.	801.	350.	742.
SDev	9.1	6.	.1	43.	2.	21.	6.
%RSD	1.250	.4364	.108	12.7	.221	5.95	.876
#1	734.5	1493.	73.3	309.	799.	336.	737.
#2	721.6	1484.	73.2	370.	802.	365.	746.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 08:39:31
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.71	5.79	-.448	.116	-2.57	-.140	-.557
SDev	.11	3.96	.100	.111	.02	.202	.198
%RSD	1.44	68.5	22.2	96.1	.641	145.	35.5
#1	7.79	2.98	-.377	.194	-2.56	-.282	-.417
#2	7.64	8.59	-.518	.037	-2.58	.003	-.697
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.081	2.33	-1.53	.249	2.29	.341	4.94
SDev	.148	.84	.97	3.82	.71	.824	1.03
%RSD	182.	35.9	63.7	1530.	31.1	242.	20.8
#1	-.186	2.92	-2.21	-2.45	2.80	.924	4.22
#2	.023	1.74	-.839	2.95	1.79	-.242	5.67
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.745	-.127	-.899	-.375	.483	-44.24	57.28
SDev	6.61	.471	4.576	.004	.034	1.80	1.08
%RSD	887.	370.	509.	1.00	7.01	4.071	1.891
#1	-3.93	.206	2.34	-.373	.459	-42.97	56.51
#2	5.42	-.461	-4.13	-.378	.507	-45.52	58.04
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.15	4.988	.480	-.343	6.43	2.14	1.57
SDev	9.02	1.425	.013	2.868	2.61	4.75	.24
%RSD	63.76	28.56	2.76	837.	40.5	221.	14.9
#1	20.53	5.995	.489	-2.37	4.59	-1.21	1.74
#2	7.770	3.981	.470	1.69	8.27	5.50	1.41

Analysis Report

08/01/03 09:37:01 AM

page 1

Method: 6010B Sample Name: 03ws1150
 Run Time: 08/01/03 09:33:43
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491.	486.	263.	497.	49.9	49.8	100.
SDev	19.	10.	7.	1.	.0	.0	1.
%RSD	3.84	2.04	2.54	.148	.030	.013	.624
#1	478.	479.	258.	498.	49.9	49.8	101.
#2	505.	493.	267.	497.	49.9	49.8	99.7
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	104.	251.	237.	462.	254.	245.
SDev	.	.	4.	26.	32.	1.	10.
%RSD	.173	.144	1.42	11.0	6.89	.208	4.25
#1	250.	104.	248.	218.	440.	254.	238.
#2	249.	104.	253.	255.	485.	253.	252.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	238.	50.3	244.	249.	50.0	477.9	1018.
SDev	1.	.2	3.	.	.0	.3	.
%RSD	.603	.402	1.17	.109	.014	.0631	.0171
#1	237.	50.4	242.	249.	50.0	478.1	1018.
#2	239.	50.1	246.	250.	50.0	477.7	1017.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496.1	988.9	49.7	241.	488.	240.	509.
SDev	4.2	1.3	.1	19.	13.	4.	3.
%RSD	.8373	.1276	.228	7.69	2.64	1.84	.540
#1	499.0	989.8	49.8	228.	479.	237.	507.
#2	493.1	988.0	49.6	254.	497.	243.	511.

analysis Report

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page 1

Operator: pps

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 09:39:23
 Comment: 83342,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.72	1.71	.872	.033	-2.45	.045	-.307
SDev	2.75	3.48	.427	.041	.03	.139	.360
%RSD	58.3	204.	49.0	122.	1.34	311.	117.
#1	6.67	4.17	1.17	.062	-2.43	.143	-.052
#2	2.77	-.753	.569	.004	-2.47	-.053	-.561
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.367	2.14	-1.18	-1.07	2.11	-.163	-1.92
SDev	.437	.00	.08	.20	.71	.061	6.02
%RSD	119.	.129	6.52	18.8	33.5	37.6	313.
#1	-.058	2.14	-1.24	-.924	2.62	-.207	-6.18
#2	-.677	2.14	-1.13	-1.21	1.61	-.120	2.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.827	-.996	3.25	-.588	.487	2.219	56.84
SDev	.907	.252	3.35	.045	.205	.826	.35
%RSD	110.	25.3	103.	7.58	42.1	37.21	.6195
#1	.185	-.818	5.62	-.556	.632	1.635	56.60
#2	1.47	-1.17	.883	-.619	.342	2.803	57.09
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.06	12.47	.580	-1.10	2.71	-.090	1.19
SDev	4.62	.95	.042	.11	3.24	2.611	.42
%RSD	35.34	7.616	7.23	9.76	119.	2910.	34.9
#1	16.33	13.15	.610	-1.03	5.00	-1.94	1.49
#2	9.799	11.80	.550	-1.18	.423	1.76	.899

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150
 Run Time: 08/01/03 10:35:28
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	522.	501.	263.	505.	51.7	50.4	104.
SDev	5.	7.	6.	2.	.7	.3	.
%RSD	.952	1.37	2.45	.387	1.34	.636	.447
#1	525.	496.	267.	506.	52.2	50.7	104.
#2	518.	506.	258.	504.	51.2	50.2	103.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	256.	107.	250.	254.	486.	260.	256.
SDev	2.	.	5.	19.	19.	2.	1.
%RSD	.630	.290	2.12	7.31	3.90	.903	.234
#1	257.	107.	246.	241.	473.	262.	257.
#2	255.	107.	253.	267.	500.	259.	256.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	51.8	253.	258.	52.3	489.5	1089.
SDev	4.	.5	7.	2.	.9	16.8	17.
%RSD	1.80	.942	2.72	.717	1.70	3.441	1.542
#1	243.	52.1	249.	259.	52.9	477.6	1101.
#2	250.	51.4	258.	256.	51.7	501.4	1077.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	548.6	1052.	52.2	253.	508.	250.	525.
SDev	20.0	19.	.6	14.	3.	3.	.
%RSD	3.643	1.763	1.06	5.60	.573	1.10	.088
#1	562.7	1066.	52.6	243.	506.	248.	525.
#2	534.5	1039.	51.8	263.	510.	252.	524.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 10:39:43
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.2	10.4	-1.86	.167	-3.09	-.158	-.080
SDev	5.3	5.2	2.17	.029	.02	.283	.556
%RSD	40.4	50.3	117.	17.5	.532	179.	694.
#1	9.40	6.67	-3.39	.188	-3.10	.042	.313
#2	16.9	14.0	-.327	.147	-3.08	-.358	-.473
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.130	2.58	2.05	.450	5.78	.775	4.21
SDev	.028	.12	1.52	2.44	1.10	.056	4.74
%RSD	21.4	4.48	74.3	542.	19.0	7.28	113.
#1	.150	2.50	3.12	-1.27	6.56	.815	7.57
#2	.111	2.66	.972	2.17	5.00	.735	.856
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.09	.107	1.76	-.048	.888	-2.288	63.45
SDev	2.22	.373	2.46	.131	.112	3.088	1.35
%RSD	106.	348.	139.	273.	12.6	135.0	2.124
#1	.521	.371	.027	.045	.967	-.1043	62.50
#2	3.66	-.156	3.50	-.140	.809	-4.471	64.41
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.66	-10.92	.534	.982	11.3	2.80	2.24
SDev	3.95	3.18	.005	1.12	5.2	.10	.52
%RSD	20.11	29.11	1.02	114.	46.5	3.58	23.2
#1	22.46	-8.672	.538	.192	7.58	2.87	2.60
#2	16.87	-13.17	.530	1.77	15.0	2.73	1.87

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 08/01/03 11:18:24

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	550.	543.	557.	504.	526.	973.	489.
SDev	7.	14.	5.	1.	.	.	1.
%RSD	1.20	2.57	.918	.100	.040	.009	.129
#1	546.	534.	554.	504.	526.	973.	489.
#2	555.	553.	561.	504.	526.	973.	490.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	486.	526.	902.	1100.	476.	1050.	526.
SDev	.	1.	8.	39.	26.	.	10.
%RSD	.048	.251	.927	3.59	5.39	.038	1.88
#1	486.	525.	896.	1070.	458.	1050.	519.
#2	486.	527.	908.	1130.	495.	1050.	533.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	511.	894.	485.	508.	1030.	541500.	471400.
SDev	33.	81.	11.	1.	.	883.	225.
%RSD	6.48	9.06	2.29	.242	.035	.1631	.0478
#1	488.	952.	492.	507.	1030.	540900.	471500.
#2	535.	837.	477.	509.	1030.	542200.	471200.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	190300.	545500.	503.	1030.	546.	516.	2110.
SDev	174.	156.	.	29.	12.	25.	3.
%RSD	.0914	.0287	.038	2.82	2.11	4.92	.151
#1	190200.	545600.	503.	1010.	538.	498.	2110.
#2	190500.	545400.	503.	1050.	554.	534.	2110.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/01/03 11:27:08

Comment: 83290,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	780.	785.	381.	743.	76.1	73.5	151.
SDev	43.	2.	3.	3.	.4	.1	1.
%RSD	5.47	.218	.821	.440	.478	.075	.644
#1	749.	783.	379.	740.	75.9	73.5	150.
#2	810.	786.	383.	745.	76.4	73.5	152.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374.	155.	360.	370.	736.	381.	368.
SDev	2.	2.	23.	80.	56.	1.	5.
%RSD	.647	1.58	6.29	21.6	7.60	.250	1.34
#1	373.	153.	344.	313.	696.	381.	364.
#2	376.	157.	376.	426.	775.	382.	371.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	376.	77.0	366.	374.	74.8	770.2	1539.
SDev	20.	.4	6.	3.	.6	7.0	2.
%RSD	5.26	.501	1.57	.862	.755	.9111	.1328
#1	362.	76.7	362.	372.	74.4	775.2	1538.
#2	390.	77.2	371.	377.	75.2	765.3	1540.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	752.2	1537.	74.6	366.	783.	373.	758.
SDev	7.7	3.	.6	61.	15.	15.	13.
%RSD	1.026	.1981	.782	16.6	1.96	3.97	1.74
#1	746.8	1539.	74.1	323.	772.	363.	749.
#2	757.7	1535.	75.0	409.	794.	384.	768.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 11:39:57
 Comment: 83290,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.1	20.9	2.64	.045	-.014	-.282	-.395
SDev	2.1	4.1	1.84	.050	.048	.204	.033
%RSD	9.25	19.8	69.8	110.	353.	72.4	8.39
#1	24.6	23.9	3.94	.010	.020	-.427	-.371
#2	21.6	18.0	1.34	.081	-.048	-.138	-.418
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.087	2.17	-2.09	.933	1.46	.520	5.12
SDev	.471	.56	2.59	2.81	.77	.298	.29
%RSD	541.	25.9	124.	301.	52.5	57.3	5.67
#1	-.246	1.77	-.262	2.92	2.00	.730	5.33
#2	.420	2.56	-3.92	-1.05	.919	.309	4.92
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.68	-.318	.032	-1.09	.250	2.271	-2.047
SDev	3.06	.261	4.19	.13	.046	3.702	1.093
%RSD	114.	81.9	13100.	11.7	18.3	163.0	53.41
#1	-4.84	-.502	-2.93	-1.18	.282	-.3470	-1.274
#2	-.516	-.134	2.99	-.997	.217	4.889	-2.820
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.02	-13.67	.476	-.075	21.7	-.078	-.299
SDev	4.65	3.86	.069	2.736	3.5	1.942	.055
%RSD	33.17	28.27	14.5	3660.	16.1	2500.	18.2
#1	10.74	-16.40	.428	1.86	24.1	-1.45	-.261
#2	17.31	-10.94	.525	-2.01	19.2	1.30	-.338

Analysis Report

08/01/03 12:15:23 PM

page 1

Method: 6010B Sample Name: qc220909
 Run Time: 08/01/03 12:09:51
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.92	-6.08	.920	-.120	.270	-.383	-.849
SDev	5.00	5.04	.971	.162	.287	.119	.574
%RSD	72.3	82.9	106.	135.	106.	31.1	67.6
#1	10.5	-9.64	1.61	-.235	.474	-.467	-1.25
#2	3.39	-2.51	.233	-.006	.067	-.299	-.443
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.683	2.23	-7.93	3.55	.027	-.346	-3.28
SDev	.938	.42	12.17	7.67	.770	.642	11.76
%RSD	137.	18.9	154.	216.	2830.	186.	358.
#1	-1.35	1.94	-16.5	8.98	.572	-.800	-11.6
#2	-.020	2.53	.680	-1.87	-.517	.108	5.03
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.26	-1.68	5.83	-1.37	-.192	-20.50	19.10
SDev	6.91	.91	9.01	.52	.202	13.60	22.43
%RSD	548.	53.8	154.	38.2	105.	66.31	117.4
#1	3.63	-2.32	-.538	-1.74	-.049	-30.12	34.96
#2	-6.15	-1.04	12.2	-.999	-.335	-10.89	3.240
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	29.06	17.90	.608	-.274	-1.74	-1.93	-1.03
SDev	25.75	32.44	.184	1.057	1.69	.69	.46
%RSD	88.61	181.2	30.2	386.	97.1	35.6	44.5
#1	47.26	40.84	.738	.474	-2.94	-1.45	-.705
#2	10.85	-5.033	.478	-1.02	-.547	-2.42	-1.35

Analysis Report

08/01/03 12:19:09 PM

page 1

Method: 6010B

Sample Name: ~~ge220910~~ ^{mw}

Operator: mw

Run Time: 08/01/03 12:16:09

Comment: ~~83337,1~~

Mode: CONC Corr. factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2190.	2220.	984.	1950.	50.6	191.	1940.
SDev	120.	31.	20.	22.	1.1	3.	38.
%RSD	5.47	1.39	2.05	1.14	2.14	1.41	1.95
#1	2100.	2200.	970.	1940.	49.8	189.	1920.
#2	2270.	2240.	999.	1970.	51.3	193.	1970.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	477.	245.	1930.	2120.	407.	486.	937.
SDev	9.	3.	17.	108.	16.	8.	1.
%RSD	1.89	1.37	.888	5.10	4.03	1.72	.152
#1	471.	243.	1920.	2040.	396.	480.	936.
#2	484.	248.	1940.	2200.	419.	492.	938.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	998.	198.	930.	492.	477.	18720.	19470.
SDev	59.	1.	34.	8.	9.	300.	415.
%RSD	5.91	.392	3.66	1.72	1.83	1.600	2.129
#1	957.	197.	906.	486.	471.	18510.	19180.
#2	1040.	198.	954.	498.	483.	18930.	19770.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19190.	19700.	478.	2060.	2210.	978.	992.
SDev	432.	391.	9.	78.	60.	40.	21.
%RSD	2.251	1.986	1.88	3.78	2.74	4.07	2.16
#1	18890.	19430.	472.	2000.	2170.	950.	977.
#2	19500.	19980.	485.	2110.	2250.	1010.	1010.

Analysis Report

08/01/03 12:22:55 PM

page 1

Method: 6010B Sample Name: qc220911

Operator: mw

Run Time: 08/01/03 12:19:52

Comment: 82337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2130.	2140.	965.	1880.	49.9	186.	1900.
SDev	135.	29.	.	.	.5	.	5.
%RSD	6.36	1.33	.000	.024	1.04	.204	.280
#1	2030.	2120.	965.	1880.	50.3	186.	1900.
#2	2220.	2160.	965.	1880.	49.5	185.	1900.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	465.	240.	1850.	2060.	394.	475.	879.
SDev	3.	1.	11.	114.	14.	1.	8.
%RSD	.550	.535	.569	5.53	3.60	.282	.870
#1	463.	239.	1850.	1980.	384.	474.	873.
#2	467.	241.	1860.	2140.	404.	476.	884.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	957.	189.	909.	478.	465.	18260.	19150.
SDev	64.	3.	25.	2.	2.	86.	14.
%RSD	6.74	1.37	2.77	.398	.376	.4730	.0725
#1	911.	188.	891.	477.	464.	18200.	19140.
#2	1000.	191.	927.	480.	467.	18320.	19160.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18810.	19340.	468.	1990.	2140.	931.	966.
SDev	70.	2.	1.	79.	64.	46.	7.
%RSD	.3704	.0122	.188	3.99	3.00	4.89	.721
#1	18760.	19340.	468.	1930.	2090.	899.	961.
#2	18860.	19340.	469.	2050.	2180.	963.	971.

Analysis Report

08/01/03 12:27:12 PM

page 1

Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 08/01/03 12:23:57

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	563.	506.	559.	507.	516.	987.	492.
SDev	22.	10.	10.	1.	7.	5.	5.
%RSD	3.97	1.97	1.81	.258	1.36	.543	1.10
#1	578.	499.	566.	508.	521.	991.	495.
#2	547.	514.	552.	506.	511.	984.	488.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.	522.	911.	1200.	486.	1060.	532.
SDev	4.	1.	28.	65.	30.	10.	23.
%RSD	.845	.221	3.08	5.46	6.28	.955	4.38
#1	494.	522.	891.	1150.	464.	1070.	516.
#2	489.	521.	931.	1240.	507.	1060.	549.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	559.	1040.	509.	506.	1060.	516600.	474600.
SDev	11.	33.	24.	2.	10.	3111.	7214.
%RSD	2.04	3.14	4.64	.409	.902	.6023	1.520
#1	551.	1070.	526.	508.	1060.	518800.	479700.
#2	567.	1020.	492.	505.	1050.	514400.	469500.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	191800.	545300.	501.	1100.	525.	550.	2100.
SDev	1828.	7527.	6.	53.	1.	15.	8.
%RSD	.9531	1.380	1.24	4.81	.155	2.80	.391
#1	193100.	550600.	505.	1070.	526.	539.	2110.
#2	190500.	540000.	496.	1140.	525.	561.	2100.

Analysis Report

08/01/03 12:33:32 PM

page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 08/01/03 12:30:18

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	506.	487.	262.	497.	52.6	49.4	101.
SDev	.	2.	8.	1.	.4	.0	1.
%RSD	.021	.347	2.95	.146	.835	.001	.525
#1	506.	486.	256.	496.	52.9	49.4	100.
#2	506.	489.	267.	497.	52.3	49.4	101.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	252.	104.	230.	252.	472.	257.	247.
SDev	1.	.	26.	51.	45.	.	10.
%RSD	.325	.425	11.4	20.1	9.48	.038	3.84
#1	251.	103.	212.	216.	440.	257.	241.
#2	252.	104.	249.	288.	504.	257.	254.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	258.	48.9	249.	249.	51.1	503.8	1054.
SDev	10.	2.5	3.	1.	.0	11.9	22.
%RSD	3.78	5.14	1.09	.432	.072	2.354	2.122
#1	251.	47.1	251.	249.	51.1	495.4	1069.
#2	265.	50.7	247.	250.	51.0	512.2	1038.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	532.3	1068.	50.4	245.	494.	255.	511.
SDev	23.2	18.	.1	43.	1.	10.	9.
%RSD	4.365	1.681	.179	17.4	.221	3.80	1.67
#1	548.7	1080.	50.5	215.	493.	248.	505.
#2	515.9	1055.	50.3	275.	494.	261.	517.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 12:34:52
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	37.8	12.9	.064	-.097	.445	-.556	-1.49
SDev	14.1	5.9	3.62	.263	.377	.722	2.12
%RSD	37.2	45.5	5650.	271.	84.7	130.	142.
#1	47.8	8.77	-2.50	-.283	.712	-1.07	-2.99
#2	27.9	17.1	2.63	.089	.179	-.045	.008
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.891	2.64	-13.6	6.69	3.84	-.716	-.840
SDev	1.920	.70	8.2	10.7	.30	.731	7.307
%RSD	216.	26.4	60.2	160.	7.88	102.	870.
#1	-2.25	2.15	-19.4	14.2	4.05	-1.23	-6.01
#2	.467	3.14	-7.80	-.856	3.63	-.199	4.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.47	-2.80	2.85	-2.31	-.017	-20.97	4.209
SDev	1.33	2.63	3.73	1.57	.052	21.81	6.381
%RSD	20.6	93.7	131.	68.0	314.	104.0	151.6
#1	7.41	-4.66	5.48	-3.43	.020	-36.39	8.720
#2	5.52	-.945	.212	-1.20	-.054	-5.545	-.3032
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.20	-16.48	.384	-.072	21.2	4.03	-.009
SDev	17.67	11.61	.058	4.384	.8	1.55	.939
%RSD	58.52	70.48	15.2	6050.	3.64	38.4	10600.
#1	42.69	-8.268	.426	3.03	21.8	2.94	.655
#2	17.70	-24.69	.343	-3.17	20.7	5.12	-.673

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-007

Operator: mw

Run Time: 08/01/03 12:47:34

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26.6	15.2	67.4	674.	7.25	33.7	1420.
SDev	2.6	1.5	.4	1.	.01	.4	2.
%RSD	9.65	9.67	.608	.102	.093	1.07	.116
#1	28.4	16.2	67.2	674.	7.25	34.0	1420.
#2	24.8	14.1	67.7	673.	7.24	33.4	1410.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	227.	124.	88.3	126.	2.68	1810.	-13.7
SDev	.	.	1.9	1.	2.60	1.	14.0
%RSD	.013	.058	2.12	.537	96.9	.048	102.
#1	228.	124.	89.7	125.	4.52	1810.	-3.78
#2	227.	124.	87.0	126.	.843	1810.	-23.6
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.1	-3.19	4.24	865.	564.	191100.	47860.
SDev	5.4	.54	8.74	.	1.	83.	18.
%RSD	33.4	17.0	206.	.040	.141	.0434	.0379
#1	19.8	-2.80	10.4	864.	564.	191100.	47840.
#2	12.3	-3.57	-1.93	865.	563.	191000.	47870.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	367700.	76410.	5410.	113.	19.0	6.14	11100.
SDev	129.	5.	3.	.	1.8	8.24	12.
%RSD	.0350	.0069	.061	.153	9.66	134.	.104
#1	367600.	76420.	5410.	113.	20.3	12.0	11100.
#2	367800.	76410.	5410.	113.	17.7	.312	11200.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-007

Operator: mw

Run Time: 08/01/03 12:51:04

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26.8	13.2	69.7	664.	7.07	33.5	1400.
SDev	6.6	11.2	8.3	7.	.10	.1	18.
%RSD	24.5	84.9	11.9	1.04	1.43	.189	1.32
#1	22.1	21.1	75.6	659.	7.14	33.5	1380.
#2	31.4	5.28	63.8	669.	7.00	33.4	1410.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	226.	123.	95.2	117.	2.86	1790.	-8.58
SDev	2.	2.	5.6	9.	1.43	21.	8.71
%RSD	1.03	1.24	5.84	7.95	50.0	1.15	102.
#1	224.	122.	99.1	110.	3.87	1780.	-2.42
#2	227.	124.	91.3	123.	1.85	1800.	-14.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.62	-2.48	5.50	855.	555.	188600.	47330.
SDev	15.4	1.31	3.53	8.	7.	2839.	675.
%RSD	426.	52.6	64.1	.953	1.27	1.505	1.426
#1	-7.28	-1.56	3.01	849.	550.	186600.	46860.
#2	14.5	-3.41	8.00	861.	560.	190700.	47810.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	362800.	75430.	5340.	110.	17.7	-.445	11000.
SDev	4975.	986.	71.	4.	5.3	7.377	160.
%RSD	1.371	1.308	1.32	3.96	29.8	1660.	1.46
#1	359300.	74730.	5290.	106.	21.5	-5.66	10900.
#2	366300.	76130.	5390.	113.	14.0	4.77	11100.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-007

Operator: mw

Run Time: 08/01/03 12:54:35

Comment: 83337,10

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.52	3.42	8.55	68.1	.919	3.39	145.
SDev	.87	.70	5.41	.1	.013	.16	.
%RSD	13.3	20.6	63.2	.084	1.37	4.74	.292
#1	7.14	3.91	4.73	68.1	.928	3.50	145.
#2	5.91	2.92	12.4	68.1	.910	3.28	144.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.5	14.3	3.86	11.9	.138	187.	-2.31
SDev	.3	.3	.89	2.4	.629	1.	4.15
%RSD	1.46	2.05	23.2	19.8	457.	.587	180.
#1	22.3	14.1	4.49	13.6	-.307	188.	.625
#2	22.7	14.6	3.23	10.3	.582	187.	-5.24
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.13	-1.43	5.65	86.3	57.6	19270.	4961.
SDev	2.84	.20	2.10	.7	.4	118.	36.
%RSD	46.4	13.9	37.2	.866	.635	.6107	.7254
#1	4.12	-1.29	4.16	85.8	57.8	19360.	4987.
#2	8.14	-1.57	7.13	86.9	57.3	19190.	4936.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	38000.	7842.	557.	9.25	4.45	3.32	1110.
SDev	185.	50.	3.	1.87	.76	.51	7.
%RSD	.4881	.6430	.512	20.3	17.0	15.5	.627
#1	38130.	7878.	559.	10.6	4.99	2.96	1120.
#2	37870.	7806.	555.	7.92	3.92	3.68	1110.

Analysis Report

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page 1

Method: 6010B Sample Name: qc220914
 Run Time: 08/01/03 12:59:23
 Comment: 83337,5
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.00	1.85	10.1	133.	1.52	6.36	282.
SDev	5.71	1.56	.3	2.	.00	.09	5.
%RSD	71.3	84.3	2.81	1.67	.099	1.41	1.62
#1	3.97	2.96	9.90	135.	1.51	6.30	285.
#2	12.0	.747	10.3	132.	1.52	6.43	279.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	45.7	25.3	15.5	24.3	-.016	365.	.472
SDev	.7	.9	.4	1.7	1.726	6.	4.60
%RSD	1.50	3.71	2.32	7.04	10700.	1.55	974.
#1	46.2	25.9	15.7	23.0	1.20	369.	-2.78
#2	45.2	24.6	15.2	25.5	-1.24	361.	3.72
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.90	-1.16	8.15	170.	113.	37810.	9589.
SDev	6.80	.33	2.56	2.	2.	573.	149.
%RSD	174.	28.5	31.4	1.37	1.70	1.517	1.557
#1	8.71	-1.40	9.96	172.	114.	38210.	9694.
#2	-.905	-.930	6.35	169.	111.	37400.	9483.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	73560.	15250.	1080.	21.3	3.90	2.76	2160.
SDev	1167.	253.	17.	1.0	.86	3.00	33.
%RSD	1.586	1.656	1.58	4.77	22.1	109.	1.50
#1	74390.	15430.	1090.	20.6	3.29	4.88	2190.
#2	72740.	15070.	1070.	22.1	4.51	.638	2140.

Analysis Report

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Method: 6010B Sample Name: qc220914

Operator: mw

Run Time: 08/01/03 13:02:59

Comment: 83337,5

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.87	-5.40	14.1	129.	1.62	6.09	273.
SDev	9.07	5.41	3.7	1.	.09	.15	4.
%RSD	92.0	100.	26.2	1.10	5.59	2.52	1.45
#1	3.45	-1.58	11.5	128.	1.69	6.20	270.
#2	16.3	-9.23	16.7	130.	1.56	5.98	276.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	44.0	25.4	13.7	22.1	.183	354.	4.00
SDev	.6	.5	.7	2.9	1.29	3.	1.82
%RSD	1.31	1.98	5.15	13.4	703.	.889	45.4
#1	43.6	25.8	14.2	20.0	1.10	351.	2.72
#2	44.4	25.1	13.2	24.1	-.728	356.	5.29
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.78	-1.31	7.44	165.	109.	36500.	9316.
SDev	.43	.37	5.46	1.	2.	533.	109.
%RSD	15.5	28.3	73.4	.510	1.60	1.461	1.172
#1	2.48	-1.04	3.58	165.	108.	36120.	9239.
#2	3.09	-1.57	11.3	166.	110.	36880.	9393.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	71200.	14790.	1050.	19.3	-.314	3.19	2090.
SDev	972.	157.	13.	1.7	.584	.89	32.
%RSD	1.365	1.062	1.23	8.98	186.	28.0	1.53
#1	70510.	14680.	1040.	18.0	.099	2.56	2070.
#2	71890.	14900.	1060.	20.5	-.727	3.82	2110.

Analysis Report

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Method: 6010B Sample Name: qc220914

Operator: mw

Run Time: 08/01/03 13:06:28

Comment: 83337,50

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.12	1.65	3.91	13.6	.256	.408	28.6
SDev	.50	5.67	4.75	.1	.033	.337	.3
%RSD	15.9	343.	121.	.867	13.0	82.5	1.07
#1	2.77	-2.36	.560	13.7	.279	.647	28.8
#2	3.48	5.67	7.27	13.5	.232	.170	28.4
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.39	4.63	-1.96	2.24	-.791	37.6	3.52
SDev	.06	.11	.03	.03	1.338	.3	1.49
%RSD	1.42	2.44	1.33	1.51	169.	.700	42.2
#1	4.35	4.71	-1.94	2.22	-1.74	37.8	4.57
#2	4.43	4.55	-1.98	2.26	.155	37.4	2.47
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.62	-1.21	4.68	17.1	10.6	3866.	983.1
SDev	5.92	.66	1.81	.6	.1	27.	11.2
%RSD	226.	54.2	38.8	3.31	.567	.7006	1.141
#1	-6.80	-.747	5.96	17.5	10.7	3886.	991.0
#2	1.57	-1.68	3.39	16.7	10.6	3847.	975.1
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7677.	1530.	112.	.841	2.14	-.571	224.
SDev	119.	23.	1.	.014	3.95	3.449	4.
%RSD	1.549	1.506	1.09	1.66	184.	605.	1.79
#1	7761.	1547.	113.	.831	-.648	-3.01	227.
#2	7593.	1514.	112.	.851	4.94	1.87	221.

Method: 6010B Sample Name: qc220912

Operator: mw

Run Time: 08/01/03 13:10:22

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	869.	861.	956.	2700.	57.3	220.	3310.
SDev	21.	5.	3.	.	.1	.	5.
%RSD	2.44	.563	.345	.006	.231	.129	.156

#1	854.	857.	954.	2700.	57.2	220.	3310.
#2	884.	864.	958.	2700.	57.4	221.	3310.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	708.	380.	1950.	2250.	339.	2470.	814.
SDev	2.	2.	.	17.	5.	3.	3.
%RSD	.264	.446	.018	.742	1.60	.121	.375

#1	706.	381.	1950.	2240.	335.	2470.	817.
#2	709.	378.	1950.	2270.	342.	2480.	812.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	898.	191.	915.	1350.	1080.	243400.	72300.
SDev	18.	1.	11.	1.	2.	150.	124.
%RSD	1.96	.463	1.16	.084	.148	.0617	.1708

#1	886.	191.	908.	1350.	1080.	243300.	72220.
#2	911.	190.	923.	1350.	1080.	243500.	72390.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	412200.	104400.	6460.	2150.	863.	870.	10400.
SDev	771.	190.	9.	11.	10.	11.	24.
%RSD	.1870	.1824	.137	.523	1.19	1.23	.229

#1	411700.	104300.	6460.	2140.	856.	863.	10400.
#2	412800.	104500.	6470.	2160.	871.	878.	10400.

Analysis Report

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Method: 6010B Sample Name: qc220913

Operator: mw

Run Time: 08/01/03 13:14:04

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	807.	770.	955.	2620.	56.3	216.	3350.
SDev	11.	5.	8.	.	.1	.	2.
%RSD	1.36	.604	.805	.019	.164	.166	.060
#1	814.	773.	961.	2620.	56.3	217.	3350.
#2	799.	766.	950.	2620.	56.2	216.	3350.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	700.	373.	1900.	2220.	340.	2490.	809.
SDev	.	1.	3.	2.	1.	1.	8.
%RSD	.012	.147	.183	.087	.369	.039	1.04
#1	700.	373.	1900.	2220.	341.	2490.	803.
#2	700.	373.	1900.	2210.	340.	2490.	815.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	899.	185.	917.	1350.	1070.	250700.	73760.
SDev	8.	1.	3.	.	2.	17.	41.
%RSD	.866	.366	.362	.021	.187	.0066	.0562
#1	904.	184.	919.	1350.	1070.	250700.	73790.
#2	893.	185.	915.	1350.	1070.	250700.	73730.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	417600.	104100.	6410.	2110.	782.	869.	11800.
SDev	188.	20.	2.	.	7.	2.	4.
%RSD	.0451	.0189	.031	.006	.863	.273	.037
#1	417800.	104200.	6410.	2110.	787.	870.	11800.
#2	417500.	104100.	6410.	2110.	777.	867.	11800.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/01/03 13:22:45

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	801.	779.	387.	728.	76.0	72.5	148.
SDev	4.	10.	.	2.	.2	.1	1.
%RSD	.499	1.33	.076	.240	.255	.110	.667
#1	798.	772.	387.	730.	76.1	72.6	148.
#2	804.	786.	387.	727.	75.8	72.5	149.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	367.	152.	368.	422.	772.	374.	378.
SDev	1.	1.	3.	.	2.	1.	4.
%RSD	.186	.552	.919	.101	.229	.286	1.12
#1	368.	153.	371.	423.	771.	375.	381.
#2	367.	152.	366.	422.	773.	373.	375.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	401.	75.8	367.	366.	73.1	739.1	1457.
SDev	1.	1.1	1.	.	.4	14.0	5.
%RSD	.267	1.43	.312	.079	.537	1.891	.3418
#1	402.	75.1	367.	366.	73.4	749.0	1461.
#2	400.	76.6	368.	367.	72.9	729.2	1454.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	789.0	1472.	73.5	404.	786.	393.	753.
SDev	7.9	11.	.4	1.	8.	2.	2.
%RSD	1.005	.7809	.501	.349	1.05	.539	.236
#1	794.6	1480.	73.8	405.	780.	395.	754.
#2	783.4	1464.	73.2	403.	792.	392.	752.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 13:28:38
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.8	1.74	1.44	.125	.467	-.550	-1.12
SDev	17.2	2.48	3.38	.023	.112	.321	.38
%RSD	75.5	142.	235.	18.2	23.9	58.4	34.2
#1	34.9	3.49	-.952	.109	.546	-.777	-1.39
#2	10.6	-.013	3.82	.141	.388	-.323	-.849
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.201	2.19	-8.50	3.63	8.82	.325	-5.07
SDev	.198	.26	2.27	5.19	1.56	.025	5.69
%RSD	98.8	11.8	26.7	143.	17.6	7.79	112.
#1	-.341	2.01	-10.1	7.30	9.92	.343	-9.09
#2	-.061	2.38	-6.90	-.036	7.72	.307	-1.05
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.35	-1.89	-.761	-1.33	-.646	5.174	-19.68
SDev	4.66	1.29	5.225	.22	.162	1.493	6.20
%RSD	87.1	68.3	687.	16.8	25.0	28.85	31.52
#1	8.65	-2.80	2.93	-1.49	-.532	4.118	-15.29
#2	2.06	-.977	-4.46	-1.17	-.761	6.229	-24.06
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.88	-43.58	.556	-.411	8.75	1.88	1.15
SDev	10.11	12.18	.062	2.704	7.38	1.21	1.15
%RSD	32.73	27.94	11.2	658.	84.4	64.6	99.8
#1	38.02	-34.97	.600	1.50	14.0	2.74	1.97
#2	23.73	-52.19	.512	-2.32	3.53	1.02	.339

Analysis Report

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page 1

Method: 6010B Sample Name: 166566-004
 Run Time: 08/01/03 13:34:57
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.65	41.7	56.5	1870.	7.07	32.7	1080.
SDev	54.59	34.1	.3	.	.47	.6	16.
%RSD	1170.	81.8	.568	.004	6.70	1.79	1.47
#1	-43.3	65.9	56.2	1870.	7.40	33.1	1070.
#2	34.0	17.6	56.7	1870.	6.73	32.3	1090.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	210.	368.	3030.	3070.	14.3	1290.	26.6
SDev	1.	1.	20.	526.	9.8	15.	33.8
%RSD	.635	.303	.651	17.1	68.5	1.16	127.
#1	209.	367.	3050.	2700.	21.2	1280.	50.5
#2	210.	369.	3020.	3440.	7.35	1300.	2.65
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-10.8	3.14	-6.60	751.	3910.	153900.	87220.
SDev	33.6	2.29	9.56	1.	67.	2653.	1986.
%RSD	312.	73.0	145.	.164	1.70	1.724	2.276
#1	-34.5	4.76	-13.4	752.	3860.	152000.	85820.
#2	13.0	1.52	.154	750.	3950.	155800.	88630.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	274500.	69200.	6960.	3060.	26.3	1.67	7380.
SDev	5395.	1443.	130.	344.	4.6	11.1	143.
%RSD	1.966	2.085	1.87	11.2	17.3	664.	1.93
#1	270700.	68180.	6870.	2810.	29.5	-6.19	7280.
#2	278300.	70220.	7050.	3300.	23.0	9.54	7480.

Analysis Report

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page 1

Method: 6010B

Sample Name: 166599-028

Operator: mw

Run Time: 08/01/03 13:45:21

Comment: 83337,1

Mode: CONC , Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.46	13.3	51.8	411.	4.00	14.5	624.
SDev	13.8	13.8	1.2	1.	.03	.2	1.
%RSD	399.	104.	2.33	.349	.786	1.36	.106
#1	-6.30	23.0	50.9	410.	4.02	14.6	623.
#2	13.2	3.52	52.6	412.	3.97	14.4	624.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	90.3	64.8	133.	138.	5.45	483.	-9.20
SDev	1.0	.1	14.	18.	4.50	6.	12.85
%RSD	1.05	.155	10.9	12.8	82.5	1.16	140.
#1	89.7	64.8	143.	126.	8.63	479.	-.119
#2	91.0	64.7	123.	151.	2.27	487.	-18.3
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.0	-2.11	3.88	424.	317.	93250.	55230.
SDev	14.1	1.94	5.12	1.	4.	1354.	761.
%RSD	141.	91.7	132.	.294	1.13	1.452	1.377
#1	.024	-.742	.265	423.	314.	92290.	54700.
#2	20.0	-3.48	7.50	425.	320.	94210.	55770.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	151900.	39240.	2150.	137.	9.99	3.62	8440.
SDev	2262.	606.	30.	7.	4.58	5.15	137.
%RSD	1.489	1.544	1.42	5.09	45.9	142.	1.63
#1	150300.	38810.	2130.	132.	13.2	-.023	8350.
#2	153500.	39670.	2170.	142.	6.75	7.26	8540.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-029

Operator: mw

Run Time: 08/01/03 13:48:50

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.82	9.71	37.7	362.	3.23	11.7	482.
SDev	8.19	13.2	3.4	.	.06	.7	2.
%RSD	170.	136.	8.99	.055	1.96	5.82	.470
#1	-.971	19.1	40.1	362.	3.27	12.1	483.
#2	10.6	.363	35.3	362.	3.18	11.2	480.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	70.5	50.5	182.	189.	2.50	393.	.913
SDev	.3	.5	11.	18.	.64	3.	16.1
%RSD	.398	.898	6.29	9.42	25.7	.828	1760.
#1	70.3	50.8	190.	176.	2.96	390.	12.3
#2	70.7	50.1	174.	201.	2.05	395.	-10.5
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.35	-1.08	-5.23	313.	264.	73020.	40600.
SDev	7.17	.41	1.23	.	3.	917.	608.
%RSD	134.	37.7	23.6	.146	1.25	1.256	1.499
#1	.279	-.794	-4.36	313.	262.	72370.	40170.
#2	10.4	-1.37	-6.10	314.	267.	73660.	41030.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	120100.	32090.	1790.	187.	8.08	3.87	4980.
SDev	1562.	447.	23.	8.	6.09	.58	61.
%RSD	1.300	1.392	1.30	4.31	75.3	14.9	1.22
#1	119000.	31770.	1770.	181.	12.4	4.28	4940.
#2	121200.	32400.	1800.	192.	3.78	3.46	5020.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-030
 Run Time: 08/01/03 13:52:18
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.190	20.4	45.5	1040.	4.89	20.1	739.
SDev	30.3	14.4	9.9	1.	.24	.0	1.
%RSD	16000.	70.4	21.8	.056	4.93	.022	.186
#1	-21.3	30.6	52.5	1040.	5.06	20.1	738.
#2	21.6	10.2	38.5	1040.	4.72	20.1	740.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	103.	158.	2540.	2710.	6.17	570.	10.5
SDev	1.	.	13.	290.	1.79	7.	18.9
%RSD	1.29	.108	.514	10.7	29.1	1.18	181.
#1	102.	158.	2550.	2500.	7.44	565.	23.8
#2	104.	158.	2530.	2910.	4.90	574.	-2.91
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.28	-.965	-7.43	550.	1090.	106500.	53150.
SDev	8.24	.387	.05	1.	13.	1547.	879.
%RSD	156.	40.1	.613	.174	1.22	1.453	1.653
#1	-11.1	-.692	-7.46	549.	1080.	105400.	52530.
#2	.547	-1.24	-7.40	550.	1100.	107600.	53770.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	190900.	40080.	4000.	2650.	13.7	-.029	6080.
SDev	2738.	629.	55.	189.	.5	.814	84.
%RSD	1.434	1.570	1.38	7.11	3.93	2830.	1.38
#1	189000.	39630.	3960.	2520.	13.3	.547	6020.
#2	192900.	40520.	4040.	2790.	14.0	-.605	6140.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-031

Operator: mw

Run Time: 08/01/03 13:55:46

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.23	14.2	47.6	608.	4.30	16.2	619.
SDev	19.24	17.8	11.8	1.	.17	.4	1.
%RSD	208.	125.	24.8	.224	4.00	2.34	.085
#1	-22.8	26.8	55.9	607.	4.42	16.5	619.
#2	4.37	1.61	39.2	609.	4.18	15.9	620.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	90.1	98.7	790.	865.	5.59	487.	6.62
SDev	.4	.0	13.	48.	1.74	5.	15.9
%RSD	.485	.050	1.63	5.50	31.1	1.12	240.
#1	89.8	98.7	799.	831.	6.83	483.	17.9
#2	90.4	98.7	781.	898.	4.36	491.	-4.62
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.49	-2.09	-9.92	445.	521.	97100.	48080.
SDev	21.01	2.11	6.31	1.	7.	1520.	879.
%RSD	324.	101.	63.6	.137	1.43	1.566	1.828
#1	-21.3	-.605	-14.4	444.	516.	96030.	47460.
#2	8.37	-3.58	-5.46	445.	526.	98180.	48700.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	161000.	37420.	2670.	840.	6.40	-2.12	6070.
SDev	2534.	647.	41.	27.	5.48	8.71	94.
%RSD	1.574	1.730	1.53	3.26	85.6	411.	1.56
#1	159200.	36960.	2650.	820.	10.3	-8.28	6000.
#2	162800.	37880.	2700.	859.	2.53	4.04	6140.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-032
 Run Time: 08/01/03 13:59:14
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.33	12.6	50.4	636.	4.85	16.8	724.
SDev	12.29	9.8	1.0	1.	.13	.1	1.
%RSD	528.	77.9	1.89	.163	2.60	.579	.184
#1	-11.0	19.6	51.1	635.	4.94	16.9	723.
#2	6.36	5.66	49.8	637.	4.76	16.7	724.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	93.8	85.9	170.	191.	2.12	495.	4.70
SDev	1.6	.0	9.	8.	3.09	7.	10.3
%RSD	1.67	.027	5.52	4.10	145.	1.49	219.
#1	92.7	85.9	176.	186.	4.31	490.	12.0
#2	94.9	85.9	163.	197.	-.059	501.	-2.60
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.99	-1.91	-5.84	475.	389.	107400.	51180.
SDev	10.0	.26	3.57	2.	5.	1404.	875.
%RSD	335.	13.7	61.0	.417	1.34	1.307	1.710
#1	-4.09	-1.72	-8.36	473.	386.	106400.	50560.
#2	10.1	-2.10	-3.32	476.	393.	108400.	51800.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	173800.	38810.	2500.	184.	7.63	3.56	6650.
SDev	2755.	685.	36.	2.	2.45	3.24	97.
%RSD	1.585	1.765	1.44	1.15	32.1	90.8	1.47
#1	171900.	38330.	2480.	183.	9.36	1.27	6580.
#2	175800.	39300.	2530.	186.	5.90	5.85	6710.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-033
 Run Time: 08/01/03 14:02:42
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.23	11.5	47.8	523.	4.48	15.3	615.
SDev	26.1	11.7	9.1	.	.12	.1	.
%RSD	2120.	102.	19.1	.019	2.75	.929	.031
#1	-17.2	19.8	54.2	523.	4.57	15.4	615.
#2	19.6	3.25	41.3	523.	4.40	15.2	615.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	85.6	89.4	252.	264.	3.34	506.	-8.40
SDev	1.1	.7	8.	28.	3.62	5.	8.99
%RSD	1.31	.809	3.29	10.4	108.	.930	107.
#1	84.8	89.9	258.	244.	5.90	503.	-2.04
#2	86.3	88.9	246.	283.	.777	509.	-14.8
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.58	-3.35	-9.72	412.	354.	95520.	47340.
SDev	14.21	1.10	10.35	1.	3.	948.	567.
%RSD	255.	32.9	107.	.209	.733	.9927	1.197
#1	-15.6	-2.57	-17.0	413.	352.	94850.	46930.
#2	4.47	-4.12	-2.40	412.	356.	96190.	47740.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	158000.	38800.	2000.	260.	8.10	-6.52	6160.
SDev	1761.	474.	20.	16.	.87	6.48	72.
%RSD	1.115	1.222	1.01	5.99	10.8	99.4	1.16
#1	156800.	38460.	1990.	249.	7.48	-11.1	6110.
#2	159200.	39130.	2020.	271.	8.71	-1.94	6210.

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page 1

Method: 6010B Sample Name: 166566-005

Operator: mw

Run Time: 08/01/03 14:06:43

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.5	10.4	39.3	1430.	5.77	24.1	963.
SDev	7.1	4.8	.8	1.	.06	.1	1.
%RSD	36.5	46.3	2.15	.081	.999	.230	.111
#1	14.5	13.8	38.7	1430.	5.72	24.1	963.
#2	24.5	6.98	39.9	1430.	5.81	24.1	964.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	183.	213.	661.	773.	1.37	909.	-11.7
SDev	.	.	1.	2.	.44	1.	.0
%RSD	.116	.164	.176	.283	32.4	.068	.302
#1	183.	213.	660.	771.	1.68	910.	-11.7
#2	183.	212.	661.	774.	1.06	909.	-11.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.95	-1.22	4.81	574.	889.	137800.	51250.
SDev	1.20	.38	2.59	.	.	120.	21.
%RSD	30.4	31.1	53.8	.042	.033	.0873	.0403
#1	4.80	-1.48	6.64	574.	889.	137700.	51240.
#2	3.10	-.949	2.98	574.	890.	137900.	51270.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	252100.	51050.	8000.	735.	13.4	-1.27	6590.
SDev	93.	39.	5.	2.	.8	.79	2.
%RSD	.0368	.0770	.064	.251	6.22	62.0	.037
#1	252000.	51020.	8000.	734.	14.0	-.715	6590.
#2	252200.	51080.	8010.	737.	12.8	-1.83	6590.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151
 Run Time: 08/01/03 14:13:30
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	787.	783.	391.	749.	78.2	74.3	151.
SDev	16.	5.	6.	.	.4	.4	1.
%RSD	2.08	.634	1.44	.056	.481	.557	.983
#1	775.	779.	395.	749.	78.4	74.6	152.
#2	799.	786.	387.	749.	77.9	74.0	150.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	377.	155.	377.	425.	764.	387.	375.
SDev	3.	1.	4.	15.	21.	1.	4.
%RSD	.727	.430	1.00	3.47	2.80	.295	.956
#1	379.	155.	375.	415.	749.	388.	378.
#2	375.	154.	380.	436.	779.	386.	373.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	402.	77.7	374.	375.	76.2	770.7	1471.
SDev	10.	.6	2.	2.	.6	3.8	12.
%RSD	2.56	.731	.582	.450	.848	.4912	.7854
#1	395.	78.1	373.	376.	76.6	773.4	1479.
#2	409.	77.3	376.	374.	75.7	768.1	1463.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	806.5	1508.	75.3	409.	784.	393.	771.
SDev	24.6	11.	.7	11.	9.	6.	1.
%RSD	3.046	.7427	.890	2.71	1.12	1.44	.066
#1	823.9	1516.	75.8	402.	778.	389.	771.
#2	789.1	1500.	74.9	417.	790.	397.	770.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 14:18:16
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.37	3.31	-3.00	.209	.815	.023	-.700
SDev	1.91	7.90	6.37	.129	.064	.279	.390
%RSD	140.	238.	212.	61.5	7.84	1200.	55.7
#1	2.72	8.90	1.50	.300	.860	.221	-.424
#2	.018	-2.27	-7.50	.118	.770	-.174	-.975
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.199	1.60	-.808	.445	9.74	.237	13.0
SDev	.058	.34	.734	.888	1.53	.498	2.0
%RSD	29.0	21.4	90.8	200.	15.7	210.	15.3
#1	-.158	1.84	-.290	-.183	10.8	.590	11.6
#2	-.240	1.36	-1.33	1.07	8.65	-.115	14.4
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.67	-.252	-5.31	-.625	-.489	38.93	-33.60
SDev	1.37	.165	2.49	.361	.171	3.47	1.21
%RSD	81.9	65.5	46.9	57.8	34.9	8.908	3.611
#1	-2.64	-.136	-3.55	-.369	-.369	41.38	-32.74
#2	-.704	-.369	-7.07	-.880	-.610	36.47	-34.46
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26.35	-53.17	.710	.027	2.67	3.22	1.42
SDev	15.26	5.18	.127	.347	5.90	1.58	.73
%RSD	57.91	9.733	17.8	1290.	221.	49.0	51.6
#1	37.13	-49.51	.799	-.219	6.84	2.11	1.94
#2	15.56	-56.83	.620	.273	-1.51	4.34	.902

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089

Operator: mw

Run Time: 08/01/03 15:02:12

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	479.	515.	556.	507.	497.	986.	477.
SDev	60.	1.	.	3.	2.	5.	1.
%RSD	12.5	.117	.016	.507	.325	.470	.232
#1	437.	515.	556.	508.	498.	989.	478.
#2	522.	514.	556.	505.	496.	983.	476.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	480.	510.	927.	1150.	485.	1050.	535.
SDev	1.	2.	.	112.	27.	5.	22.
%RSD	.214	.361	.000	9.75	5.65	.469	4.17
#1	481.	511.	927.	1070.	466.	1050.	551.
#2	480.	509.	927.	1230.	505.	1050.	519.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	538.	995.	483.	496.	1040.	496000.	450100.
SDev	43.	30.	14.	5.	2.	738.	1835.
%RSD	8.05	3.05	2.87	.989	.192	.1489	.4076
#1	507.	1020.	473.	499.	1050.	496500.	451400.
#2	568.	973.	493.	492.	1040.	495400.	448800.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	185100.	527300.	480.	1080.	503.	537.	2060.
SDev	265.	1454.	1.	75.	20.	21.	1.
%RSD	.1432	.2758	.289	6.95	3.90	3.99	.042
#1	185300.	528300.	481.	1020.	489.	522.	2060.
#2	184900.	526300.	479.	1130.	517.	552.	2060.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 08/01/03 15:11:24

Comment: 83337,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	465.	252.	488.	50.9	48.6	97.3
SDev	3.	18.	2.	.	.1	.0	.3
%RSD	.633	3.96	.694	.045	.208	.025	.279

#1	472.	452.	251.	488.	50.9	48.6	97.1
#2	476.	478.	254.	488.	50.8	48.6	97.5

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	243.	100.	244.	276.	494.	250.	249.
SDev	1.	1.	5.	5.	16.	.	2.
%RSD	.282	.852	1.92	1.91	3.27	.016	.703

#1	242.	101.	241.	273.	483.	250.	250.
#2	243.	99.7	247.	280.	506.	250.	248.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	264.	49.4	246.	241.	49.3	527.9	948.2
SDev	1.	1.2	4.	.	.2	12.1	7.4
%RSD	.367	2.40	1.56	.109	.431	2.286	.7775

#1	264.	48.6	249.	241.	49.4	536.5	953.4
#2	265.	50.3	244.	242.	49.1	519.4	943.0

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.1	1000.	47.5	265.	468.	259.	499.
SDev	5.9	6.	.2	5.	13.	.	1.
%RSD	1.182	.5940	.379	1.91	2.84	.024	.260

#1	507.3	1004.	47.6	262.	458.	259.	498.
#2	498.9	996.1	47.4	269.	477.	259.	500.

Analysis Report

08/01/03 03:19:13 PM

page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/01/03 15:16:07
 Comment: 83337,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.81	12.9	3.11	.068	1.42	-.205	-.701
SDev	.04	.7	.11	.041	.04	.100	.195
%RSD	1.51	5.32	3.45	60.0	2.90	48.7	27.8
#1	2.78	13.4	3.04	.096	1.44	-.275	-.838
#2	2.84	12.4	3.19	.039	1.39	-.134	-.563
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.030	1.50	-.485	1.15	5.95	.363	.396
SDev	.730	.40	.156	1.61	1.12	.127	3.77
%RSD	2440.	26.5	32.1	140.	18.8	35.1	951.
#1	-.486	1.22	-.595	2.29	6.75	.453	-2.27
#2	.546	1.78	-.375	.008	5.16	.273	3.06
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.29	-.827	-2.98	-.646	-.577	48.02	-34.46
SDev	2.12	.506	2.66	.251	.021	2.17	2.98
%RSD	49.5	61.2	89.4	38.9	3.58	4.530	8.634
#1	2.79	-.469	-1.10	-.824	-.563	46.48	-32.36
#2	5.80	-1.18	-4.86	-.468	-.592	49.56	-36.57
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.369	-39.54	.111	.604	9.53	2.99	-.247
SDev	.268	1.28	.029	1.02	.44	2.67	.329
%RSD	3.636	3.232	25.5	169.	4.65	89.2	133.
#1	7.180	-38.63	.091	1.33	9.84	1.11	-.014
#2	7.559	-40.44	.132	-.120	9.22	4.88	-.480

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr212300	X				04-AUG-2003	06:59	1.0				1		
002	tr212301	CS				04-AUG-2003	07:05	1.0				1		
003	tr212303	ICV				04-AUG-2003	07:28	1.0				2		
004	tr212304	ICB				04-AUG-2003	07:40	1.0						
005	tr212305	CRI				04-AUG-2003	07:56	1.0				3		
006	tr212306	ICSAB				04-AUG-2003	08:00	1.0				4		4:MG=519400
007	tr212307	BLANK	QC221106	83386	Soil	04-AUG-2003	08:04	1.0	50.0	1				
008	tr212308	BS	QC221107	83386	Soil	04-AUG-2003	08:09	1.0	50.0					
009	tr212309	BSD	QC221108	83386	Soil	04-AUG-2003	08:12	1.0	50.0					
010	tr212310	MSS	166674-002	83386	Soil	04-AUG-2003	08:18	1.0	40.81633	2				2:FE=270700
011	tr212311	SER	QC221111	83386	Soil	04-AUG-2003	08:22	5.0	40.81633	1	1			
012	tr212312	MS	QC221109	83386	Soil	04-AUG-2003	08:26	1.0	45.87156	1				2:FE=264300
013	tr212313	MSD	QC221110	83386	Soil	04-AUG-2003	08:30	1.0	36.76471	2				2:FE=331500
014	tr212314	SAMPLE	166674-003	83386	Soil	04-AUG-2003	08:35	1.0	46.94836					2:FE=224400
015	tr212315	CCV				04-AUG-2003	08:44	1.0	1.0			5		
016	tr212316	CCB				04-AUG-2003	08:48	1.0	1.0					
017	tr212317	SAMPLE	166674-004	83386	Soil	04-AUG-2003	08:52	1.0	38.91051					2:FE=274600
018	tr212318	SAMPLE	166674-005	83386	Soil	04-AUG-2003	08:56	1.0	45.04505					2:FE=252700
019	tr212319	SAMPLE	166674-006	83386	Soil	04-AUG-2003	09:00	1.0	44.64286					2:FE=245100
020	tr212320	SAMPLE	166674-007	83386	Soil	04-AUG-2003	09:04	1.0	47.61905					3:FE=399000
021	tr212321	SAMPLE	166674-008	83386	Soil	04-AUG-2003	09:08	1.0	43.10345					2:FE=357600
022	tr212322	SAMPLE	166674-009	83386	Soil	04-AUG-2003	09:12	1.0	36.63004					2:FE=394900
023	tr212323	SAMPLE	166674-010	83386	Soil	04-AUG-2003	09:16	1.0	46.08295					3:FE=590900
024	tr212324	SAMPLE	166674-011	83386	Soil	04-AUG-2003	09:20	1.0	43.10345					3:FE=471500
025	tr212325	SAMPLE	166674-012	83386	Soil	04-AUG-2003	09:23	1.0	42.01681					3:FE=500600
026	tr212326	SAMPLE	166674-013	83386	Soil	04-AUG-2003	09:27	1.0	47.39336					3:FE=379400
027	tr212327	CCV				04-AUG-2003	09:39	1.0	1.0			5		
028	tr212328	CCB				04-AUG-2003	09:44	1.0	1.0					
029	tr212329	PDS	QC221144	83386	Soil	04-AUG-2003	09:48	1.0	40.81633			6	7	2:FE=279400
030	tr212330	SAMPLE	166674-014	83386	Soil	04-AUG-2003	09:52	1.0	43.47826					3:FE=496500
031	tr212331	SAMPLE	166674-015	83386	Soil	04-AUG-2003	09:56	1.0	47.84689					2:FE=284200
032	tr212332	SAMPLE	166674-016	83386	Soil	04-AUG-2003	10:00	1.0	46.94836					2:FE=396200

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SSS286 7=03SSS287 8=03WS1151

Analyst: Mei Wu Date: 8/14/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
033	tr212333	SAMPLE	166674-017	83386	Soil	04-AUG-2003	10:04	1.0	45.04505					2:FE=436000
034	tr212334	SAMPLE	166674-018	83386	Soil	04-AUG-2003	10:08	1.0	47.39336					2:FE=374300
035	tr212335	SAMPLE	166674-019	83386	Soil	04-AUG-2003	10:12	1.0	37.03704					3:FE=512100
036	tr212336	BLANK	QC221112	83387	Soil	04-AUG-2003	10:20	1.0	50.0					
037	tr212337	BS	QC221113	83387	Soil	04-AUG-2003	10:24	1.0	50.0					
038	tr212338	BSD	QC221114	83387	Soil	04-AUG-2003	10:32	1.0	50.0					
039	tr212339	CCV				04-AUG-2003	10:40	1.0	1.0			8		
040	tr212340	CCB				04-AUG-2003	10:48	1.0	1.0					
041	tr212341	MSS	166624-011	83387	Soil	04-AUG-2003	10:53	1.0	46.08295	2				2:FE=159400
042	tr212342	SER	QC221117	83387	Soil	04-AUG-2003	10:58	5.0	46.08295	1				
043	tr212343	SER	QC221117	83387	Soil	04-AUG-2003	11:02	5.0	46.08295		1			
044	tr212344	MS	QC221115	83387	Soil	04-AUG-2003	11:09	1.0	48.54369					2:FE=168500
045	tr212345	MSD	QC221116	83387	Soil	04-AUG-2003	11:12	1.0	42.73504					2:FE=198200
046	tr212346	SAMPLE	166663-001	83387	Soil	04-AUG-2003	11:16	1.0	43.29004					
047	tr212347	SAMPLE	166663-002	83387	Soil	04-AUG-2003	11:19	1.0	46.94836					
048	tr212348	SAMPLE	166663-003	83387	Soil	04-AUG-2003	11:23	1.0	42.37288					1:AL=114400
049	tr212349	CCV				04-AUG-2003	12:24	1.0	1.0			5		
050	tr212350	CCB				04-AUG-2003	12:34	1.0	1.0					
051	tr212351	MSS	166624-011	83387	Soil	04-AUG-2003	12:40	10.0	46.08295	1				
052	tr212352	SER	QC221117	83387	Soil	04-AUG-2003	12:44	50.0	46.08295					
053	tr212353	SAMPLE	166663-004	83387	Soil	04-AUG-2003	12:47	10.0	47.39336					
054	tr212354	SAMPLE	166663-005	83387	Soil	04-AUG-2003	12:51	10.0	48.30918					
055	tr212355	SAMPLE	166663-006	83387	Soil	04-AUG-2003	12:54	10.0	43.66812					
056	tr212356	BLANK	QC221090	83380	Water	04-AUG-2003	13:01	1.0	1.0					
057	tr212357	BS	QC221091	83380	Water	04-AUG-2003	13:07	1.0	1.0					
058	tr212358	BSD	QC221092	83380	Water	04-AUG-2003	13:17	1.0	1.0					
059	tr212359	CCV				04-AUG-2003	13:20	1.0	1.0			8		
060	tr212360	CCB				04-AUG-2003	13:26	1.0	1.0					
061	tr212361	MSS	166624-010	83380	Water	04-AUG-2003	13:30	1.0	1.0					
062	tr212362	MS	QC221093	83380	Water	04-AUG-2003	13:34	1.0	1.0					
063	tr212363	MSD	QC221094	83380	Water	04-AUG-2003	13:38	1.0	1.0					
064	tr212364	SAMPLE	166674-001	83380	Water	04-AUG-2003	13:41	1.0	1.0					

Std used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: M. Wu Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
065	tr212365 SAMPLE	166674-020	83380	Water	04-AUG-2003 13:45	1.0	1.0					
066	tr212366 BLANK	QC220915	83339	Soil	04-AUG-2003 13:48	1.0	50.0	2				
067	tr212367 BS	QC220916	83339	Soil	04-AUG-2003 13:52	1.0	50.0					
068	tr212368 BSD	QC220917	83339	Soil	04-AUG-2003 13:55	1.0	50.0					
069	tr212369 MSS	166599-003	83339	Soil	04-AUG-2003 13:59	1.0	47.84689	2				2:FE=244600
070	tr212370 MS	QC220918	83339	Soil	04-AUG-2003 14:02	1.0	48.30918					2:FE=245700
071	tr212371 CCV				04-AUG-2003 14:09	1.0	1.0				5	
072	tr212372 CCB				04-AUG-2003 14:13	1.0	1.0					
073	tr212373 BLANK				04-AUG-2003 14:17	1.0	50.0					
074	tr212374 ICSAB	QC220915	83339	Soil	04-AUG-2003 14:21	1.0	1.0				4	4:MG=456200
075	tr212375 SER	QC220920	83339	Soil	04-AUG-2003 14:25	5.0	47.84689					
076	tr212376 MSD	QC220919	83339	Soil	04-AUG-2003 14:32	1.0	49.01961					2:FE=247800
077	tr212377 MSS	166599-004	83339	Soil	04-AUG-2003 14:35	1.0	49.01961	2				2:FE=240600
078	tr212378 MS	QC220921	83339	Soil	04-AUG-2003 14:39	1.0	43.29004					3:FE=285800
079	tr212379 MSD	QC220922	83339	Soil	04-AUG-2003 14:42	1.0	45.87156	1				2:FE=270900
080	tr212380 SAMPLE	166599-001	83339	Soil	04-AUG-2003 14:46	1.0	48.54369	1				3:FE=374500
081	tr212381 SAMPLE	166599-002	83339	Soil	04-AUG-2003 14:49	1.0	48.78049					2:FE=237300
082	tr212382 SAMPLE	166599-005	83339	Soil	04-AUG-2003 14:53	1.0	44.24779					3:FE=434300
083	tr212383 SAMPLE	166599-006	83339	Soil	04-AUG-2003 14:56	1.0	45.87156					4:FE=409500
084	tr212384 CCV				04-AUG-2003 15:02	1.0	1.0				8	
085	tr212385 CCB				04-AUG-2003 15:09	1.0	1.0					
086	tr212386 SAMPLE	166599-008	83339	Soil	04-AUG-2003 15:16	1.0	48.54369					1:FE=152100
087	tr212387 SAMPLE	166599-009	83339	Soil	04-AUG-2003 15:19	1.0	47.84689					1:FE=162400
088	tr212388 SAMPLE	166599-010	83339	Soil	04-AUG-2003 15:23	1.0	46.08295					1:FE=166100
089	tr212389 SAMPLE	166599-011	83339	Soil	04-AUG-2003 15:26	1.0	46.51163					1:FE=178800
090	tr212390 SAMPLE	166599-012	83339	Soil	04-AUG-2003 15:30	1.0	43.85965					1:FE=152200
091	tr212391 SAMPLE	166599-015	83339	Soil	04-AUG-2003 15:33	1.0	40.65041					1:FE=171400
092	tr212392 SAMPLE	166599-016	83339	Soil	04-AUG-2003 15:38	1.0	49.01961					1:FE=154100
093	tr212393 SAMPLE	166599-017	83339	Soil	04-AUG-2003 15:42	1.0	49.50495					1:FE=164700
094	tr212394 SAMPLE	166599-018	83339	Soil	04-AUG-2003 15:45	1.0	49.26108					1:FE=146100
095	tr212395 SAMPLE	166599-019	83339	Soil	04-AUG-2003 15:48	1.0	46.51163					2:FE=182400
096	tr212396 CCV				04-AUG-2003 15:56	1.0	1.0				5	

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Paul Wm Date: 8/4/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr212397	CCB				04-AUG-2003	15:59	1.0						
098	tr212398	SAMPLE	166599-020	83339	Soil	04-AUG-2003	16:03	1.0						2:FE=192600
099	tr212399	SAMPLE	166599-021	83339	Soil	04-AUG-2003	16:07	1.0						1:FE=156900
100	tr212400	SAMPLE	166599-022	83339	Soil	04-AUG-2003	16:10	1.0						2:FE=197600
101	tr212401	SAMPLE	166599-023	83339	Soil	04-AUG-2003	16:14	1.0						2:FE=193500
102	tr212402	SAMPLE	166624-020	83387	Soil	04-AUG-2003	16:17	1.0						1:FE=128000
103	tr212403	SAMPLE	166624-022	83387	Soil	04-AUG-2003	16:21	1.0						1:FE=128800
104	tr212404	SAMPLE	166624-037	83387	Soil	04-AUG-2003	16:24	1.0						1:FE=193300
105	tr212405	SAMPLE	166599-001	83339	Soil	04-AUG-2003	16:29	10.0						
106	tr212406	CCV				04-AUG-2003	16:33	1.0					8	
107	tr212407	CCB				04-AUG-2003	16:38	1.0						
108	tr212408	ICSAB				04-AUG-2003	16:41	1.0						4:MG=450500
109	tr212409	SAMPLE	166624-038	83387	Soil	04-AUG-2003	16:45	1.0					4	1:FE=396500

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Mei Date: 8/4/03

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07 Samplenum: QC220915 Cident :
Seqnum : 73311459073 Matrix : Soil Acctnum :
Filename : tr212373 Batchnum : 83339 Injected : 04-AUG-2003 14:17
IDF : 1.0 PDF : 50.0 Units : mg/Kg

Analyte	Result	RL	Flags
Aluminum	ND	5.0	u
Antimony	ND	3.0	u
Arsenic	ND	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	ND	25	u
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	ND	0.50	u
Iron	ND	5.0	u
Lead	ND	0.15	u
Magnesium	ND	25	u
Manganese	ND	0.50	u
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	ND	1.0	u
Titanium	ND	0.50	u

u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73311459067	Seqnum : 73311459068
Filename : tr212367	Filename : tr212368
IDF : 1.0	IDF : 1.0
PDF : 50.0	PDF : 50.0
Run type : BS	Run type : BSD
Samplenum: QC220916	Samplenum: QC220917
Matrix : Soil	Matrix : Soil
Batchnum : 83339	Batchnum : 83339
Inj : 04-AUG-2003 13:52	Inj : 04-AUG-2003 13:55
Units : mg/Kg	

Analyte	Spike Conc	BS %Rec	BSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	863.0 86	870.5 87	57-120	1	20	u
Antimony	100.0	98.50 99	99.00 99	73-134	1	20	u
Arsenic	50.00	45.65 91	46.30 93	74-120	1	20	u
Barium	100.0	93.50 94	94.00 94	72-120	1	20	u
Beryllium	2.500	2.380 95	2.410 96	74-120	1	20	u
Cadmium	10.00	9.050 91	9.200 92	72-120	2	20	u
Calcium	1000	873.5 87	883.5 88	66-120	1	20	u
Chromium	100.0	91.00 91	92.00 92	74-120	1	20	u
Cobalt	25.00	21.95 88	22.20 89	70-120	1	20	u
Copper	12.50	11.40 91	11.45 92	70-120	0	20	u
Iron	1000	887.0 89	896.5 90	70-120	1	20	u
Lead	100.0	88.00 88	89.50 90	71-120	2	20	u
Magnesium	1000	883.0 88	894.0 89	69-120	1	20	u
Manganese	25.00	21.65 87	21.85 87	69-120	1	20	u
Molybdenum	20.00	18.60 93	19.05 95	76-120	2	20	u
Nickel	25.00	22.75 91	23.00 92	72-120	1	20	u
Selenium	50.00	42.00 84	42.55 85	66-120	1	20	u
Silver	10.00	9.050 91	9.100 91	66-120	1	20	u
Thallium	50.00	44.35 89	45.30 91	69-120	2	20	u
Vanadium	25.00	22.85 91	23.05 92	74-120	1	20	u
Zinc	25.00	21.90 88	22.25 89	68-120	2	20	u
Titanium	50.00	46.45 93	46.95 94	75-120	1	20	u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-003	Cident : BAPSB17[0.3] [MSD]
Seqnum : 73311459069	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212369	Batchnum : 83339	Injected : 04-AUG-2003 13:59
IDF : 1.0	PDF : 47.84689	Units : mg/Kg

Analyte	Result	RL	B=tr212366	Flags
Antimony	ND	2.9		u
Barium.....	45	0.48	1.3	u
Copper.....	8.9	0.48	0.17	u
Lead.....	41	0.14	1.4	u
Zinc.....	38	0.96	1.3	u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 73311459069	Seqnum : 73311459070	Seqnum : 73311459076
Filename : tr212369	Filename : tr212370	Filename : tr212376
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 47.84689	PDF : 48.30918	PDF : 49.01961
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 166599-003	Samplenum: QC220918	Samplenum: QC220919
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 83339	Batchnum : 83339	Batchnum : 83339
Inj : 04-AUG-2003 13:59	Inj : 04-AUG-2003 14:02	Inj : 04-AUG-2003 14:32
Units : mg/Kg		

Analyte	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	98.04	42.90 44	45.78 47	15-123	5	45	u
Arsenic	2.110	49.02	43.29 85	44.02 85	40-126	0	28	u
Barium	45.17	98.04	136.2 94	134.3 91	19-138	2	30	u
Beryllium	0.2550	2.451	2.415 89	2.451 90	58-120	0	20	u
Cadmium	1.383	9.804	9.565 85	9.755 85	47-120	1	24	u
Calcium	2485	980.4	3299 84	3291 82	16-150	1	43	u
Chromium	52.15	98.04	131.4 82	137.3 87	35-131	3	29	u
Cobalt	9.139	24.51	28.65 81	28.92 81	39-120	0	29	u
Copper	8.852	12.25	19.90 92	19.75 89	32-150	2	45	u
Iron	*** usable MSS data not found ***							
Lead	41.20	98.04	118.8 80	119.6 80	23-137	0	40	u
Magnesium	2389	980.4	3157 79	3242 87	20-150	2	34	u
Manganese	227.8	24.51	232.4 19	233.8 25	15-150	0	45	u
Molybdenum	ND	19.61	15.85 82	16.13 82	28-120	0	21	u
Nickel	42.63	24.51	62.32 82	63.73 86	32-136	2	35	u
Selenium	ND	49.02	38.36 79	38.97 80	38-120	0	23	u
Silver	0.1526	9.804	8.744 89	8.725 87	55-120	2	26	u
Thallium	ND	49.02	41.16 85	41.91 86	50-120	0	26	u
Vanadium	32.01	24.51	52.66 85	53.43 87	25-130	1	26	u
Zinc	38.28	24.51	57.97 82	58.82 84	20-147	1	32	u
Titanium	418.2	49.02	470.5 108	478.9 124	15-150	2	44	u

:=recovery not meaningful u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-004	Cident : BAPSB17[1] [MSD]
Seqnum : 73311459077	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212377	Batchnum : 83339	Injected : 04-AUG-2003 14:35
IDF : 1.0	PDF : 49.01961	Units : mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.9		u
Barium.....	.29	0.49		u
Copper.....	7.2	0.49		u
Lead.....	.87	0.15		u
Zinc.....	.21	0.98		u

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 73311459077	Seqnum : 73311459078	Seqnum : 73311459079
Filename : tr212377	Filename : tr212378	Filename : tr212379
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 49.01961	PDF : 43.29004	PDF : 45.87156
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 166599-004	Samplenum: QC220921	Samplenum: QC220922
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 83339	Batchnum : 83339	Batchnum : 83339
Inj : 04-AUG-2003 14:35	Inj : 04-AUG-2003 14:39	Inj : 04-AUG-2003 14:42
Units : mg/Kg		

Analyte	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	1.093	91.74	40.35 45	45.87 49	15-123	7	45	u
Arsenic	2.103	45.87	36.32 79	39.72 82	40-126	3	28	u
Barium	29.17	91.74	106.1 89	111.9 90	19-138	1	30	u
Beryllium	0.2794	2.294	2.082 83	2.284 87	58-120	4	20	u
Cadmium	1.343	9.174	8.398 81	9.174 85	47-120	4	24	u
Calcium	1785	917.4	2636 98	2672 97	16-150	1	43	u
Chromium	58.82	91.74	122.5 74	132.1 80	35-131	4	29	u
Cobalt	8.627	22.94	25.28 77	26.70 79	39-120	1	29	u
Copper	7.157	11.47	16.32 85	14.63 65	32-150	14	45	u
Iron	*** usable MSS data not found ***							
Lead	86.76	91.74	132.5 53	82.57 -5*	23-137	49*	40	fgu
Magnesium	2453	917.4	3129 78	3262 88	20-150	3	34	u
Manganese	184.8	22.94	195.7 50	191.7 30	15-150	3	45	:u
Molybdenum	ND	18.35	13.03 75	14.50 79	28-120	5	21	u
Nickel	42.35	22.94	59.31 78	62.39 87	32-136	3	35	u
Selenium	ND	45.87	31.26 72	34.17 75	38-120	3	23	u
Silver	ND	9.174	7.143 83	7.706 84	55-120	2	26	u
Thallium	0.1618	45.87	35.24 81	38.94 85	50-120	4	26	u
Vanadium	31.76	22.94	48.48 77	51.38 86	25-130	3	26	u
Zinc	21.18	22.94	38.79 81	40.83 86	20-147	2	32	u
Titanium	392.2	45.87	437.2 >LR 104	438.1 100	15-150	--	44	:>u

:=recovery not meaningful >=>LR f=recovery failure g=RPD failure u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Samplenum: 166599-001	Cident : BAPSB18[0.3]
Seqnum : 73311459080	Matrix : Soil	Acctnum : TREADWELL (SES)
Filename : tr212380	Batchnum : 83339	Injected : 04-AUG-2003 14:46
IDF : 1.0	PDF : 48.54369	Units : mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.9		u
Barium.....	.75	0.49		u
Copper.....	.66	0.49		u
Lead.....	.140	0.15		u
Zinc.....	.250 >LR	0.97		>b*

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-001	Cident	: BAPSB18[0.3]
Seqnum	: 73311459105	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212405	Batchnum	: 83339	Injected	: 04-AUG-2003 16:29
IDF	: 10.0	PDF	: 48.54369	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	29		
Barium.....	81	4.9		
Copper.....	71	4.9		
Lead.....	170	1.5		
Zinc.....	330	9.7		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-002	Cident	: BAPSB18[1]
Seqnum	: 73311459081	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212381	Batchnum	: 83339	Injected	: 04-AUG-2003 14:49
IDF	: 1.0	PDF	: 48.78049	Units	: mg/Kg

Analyte	Result	RL	E=tr212373	Flags
Antimony	ND	2.9		u
Barium.....	53	0.49		u
Copper.....	12	0.49		u
Lead.....	47	0.15		u
Zinc.....	89	0.98		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-005	Cident	: DUP072803A
Seqnum	: 73311459082	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212382	Batchnum	: 83339	Injected	: 04-AUG-2003 14:53
IDF	: 1.0	PDF	: 44.24779	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.7		u
Barium.....	37	0.44		u
Copper.....	5.8	0.44		u
Lead.....	9.7	0.13		u
Zinc.....	27	0.88		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instd	: MET07	Samplenum:	166599-006	Cident	: BAPSB14[0.3]
Seqnum	: 73311459083	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212383	Batchnum	: 83339	Injected	: 04-AUG-2003 14:56
IDF	: 1.0	PDF	: 45.87156	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	52	0.46		u
Copper.....	9.9	0.46		u
Lead.....	33	0.14		u
Zinc.....	44	0.92		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-008	Cident	: LCPSB05[0.3]
Seqnum	: 73311459086	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212386	Batchnum	: 83339	Injected	: 04-AUG-2003 15:16
IDF	: 1.0	PDF	: 48.54369	Units	: mg/Kg

Analyte	Result	RL	B-tr212373	Flags
Antimony	ND	2.9		u
Barium.....	43	0.49		u
Copper.....	4.3	0.49		u
Lead.....	3.0	0.15		u
Zinc.....	15	0.97		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-009	Cident	: LCPSB05[1]
Seqnum	: 73311459087	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212387	Batchnum	: 83339	Injected	: 04-AUG-2003 15:19
IDF	: 1.0	PDF	: 47.84689	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.9		u
Barium.....	20	0.48		u
Copper.....	3.6	0.48		u
Lead.....	8.8	0.14		u
Zinc.....	19	0.96		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-010	Cident	: LCPSB04[0.3]
Seqnum	: 73311459088	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212388	Batchnum	: 83339	Injected	: 04-AUG-2003 15:23
IDF	: 1.0	PDF	: 46.08295	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	23	0.46		u
Copper.....	6.4	0.46		u
Lead.....	7.1	0.14		u
Zinc.....	21	0.92		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-011	Cident	: LCPSB04[1]
Seqnum	: 73311459089	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212389	Batchnum	: 83339	Injected	: 04-AUG-2003 15:26
IDF	: 1.0	PDF	: 46.51163	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	15	0.47		u
Copper.....	3.8	0.47		u
Lead.....	7.3	0.14		u
Zinc.....	20	0.93		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07 Samplenum: 166599-012 Cident : LCPSB01[0.3]
Seqnum : 73311459090 Matrix : Soil Acctnum : TREADWELL (SES)
Filename : tr212390 Batchnum : 83339 Injected : 04-AUG-2003 15:30
IDF : 1.0 PDF : 43.85965 Units : mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.6		u
Barium.....	16	0.44		u
Copper.....	3.5	0.44		u
Lead.....	5.2	0.13		u
Zinc.....	16	0.88		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-015	Cident	: LCPSB03[0.3]
Seqnum	: 73311459091	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212391	Batchnum	: 83339	Injected	: 04-AUG-2003 15:33
IDF	: 1.0	PDF	: 40.65041	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.4		u
Barium.....	15	0.41		u
Copper.....	3.0	0.41		u
Lead.....	2.7	0.12		u
Zinc.....	14	0.81		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-016	Cident	: LCPSB03[1]
Seqnum	: 73311459092	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212392	Batchnum	: 83339	Injected	: 04-AUG-2003 15:38
IDF	: 1.0	PDF	: 49.01961	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.9		u
Barium.....	16	0.49		u
Copper.....	3.3	0.49		u
Lead.....	3.1	0.15		u
Zinc.....	15	0.98		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-017	Cident	: LCPSB02[1]
Seqnum	: 73311459093	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212393	Batchnum	: 83339	Injected	: 04-AUG-2003 15:42
IDF	: 1.0	PDF	: 49.50495	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	3.0		u
Barium.....	21	0.50		u
Copper.....	4.6	0.50		u
Lead.....	21	0.15		u
Zinc.....	18	0.99		u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-018	Cident	: LCPSB02[0.3]
Seqnum	: 73311459094	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212394	Batchnum	: 83339	Injected	: 04-AUG-2003 15:45
IDF	: 1.0	PDF	: 49.26108	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	3.0		u
Barium.....	16	0.49		u
Copper.....	3.1	0.49		u
Lead.....	3.3	0.15		u
Zinc.....	16	0.99		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-019	Cident	: CHPSB18[0.3]
Seqnum	: 73311459095	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212395	Batchnum	: 83339	Injected	: 04-AUG-2003 15:48
IDF	: 1.0	PDF	: 46.51163	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	40	0.47		u
Copper.....	5.9	0.47		u
Lead.....	79	0.14		u
Zinc.....	46	0.93		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-020	Cident	: CHPSB18[1]
Seqnum	: 73311459098	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212398	Batchnum	: 83339	Injected	: 04-AUG-2003 16:03
IDF	: 1.0	PDF	: 49.26108	Units	: mg/Kg

Analyte	Result	RL	E=tr212373	Flags
Antimony	ND	3.0		u
Barium.....	39	0.49		u
Copper.....	5.9	0.49		u
Lead.....	67	0.15		u
Zinc.....	44	0.99		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-021	Cident	: CHPSB18[2]
Seqnum	: 73311459099	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212399	Batchnum	: 83339	Injected	: 04-AUG-2003 16:07
IDF	: 1.0	PDF	: 46.72897	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	30	0.47		u
Copper.....	4.1	0.47		u
Lead.....	10	0.14		u
Zinc.....	17	0.93		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-022	Cident	: DUP072903A
Seqnum	: 73311459100	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212400	Batchnum	: 83339	Injected	: 04-AUG-2003 16:10
IDF	: 1.0	PDF	: 41.8410	Units	: mg/Kg

Analyte	Result	RL	E=tr212373	Flags
Antimony	ND	2.5		u
Barium.....	33	0.42		u
Copper.....	4.6	0.42		u
Lead.....	4.5	0.13		u
Zinc.....	15	0.84		u

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	166599-023	Cident	: CHPSB09 [2]
Seqnum	: 73311459101	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr212401	Batchnum	: 83339	Injected	: 04-AUG-2003 16:14
IDF	: 1.0	PDF	: 46.51163	Units	: mg/Kg

Analyte	Result	RL	B=tr212373	Flags
Antimony	ND	2.8		u
Barium.....	33	0.47		u
Copper.....	4.0	0.47		u
Lead.....	9.1	0.14		u
Zinc.....	18	0.93		u

Analysis Report

08/04/03 07:08:25 AM

page 1

Method: 6010B Sample Name: 03ws1109

Operator: pps

Run Time: 08/04/03 07:05:11

Comment: 55555,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1050.	991.	494.	994.	102.	102.	203.
SDev	67.	29.	1.	1.	.	1.	1.
%RSD	6.36	2.96	.239	.062	.356	.707	.255
#1	1100.	1010.	493.	994.	102.	102.	203.
#2	1000.	970.	495.	993.	102.	101.	203.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.	200.	506.	504.	1010.	507.	515.
SDev	1.	1.	.	8.	11.	1.	8.
%RSD	.245	.279	.071	1.52	1.05	.276	1.56
#1	509.	200.	506.	499.	1000.	508.	521.
#2	507.	199.	506.	510.	1020.	506.	510.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.	100.0	501.	504.	102.	997.0	2042.
SDev	3.	.04	6.	1.	.	2.8	13.
%RSD	.532	.043	1.30	.146	.024	.2760	.6196
#1	505.	100.	505.	505.	102.	998.9	2051.
#2	502.	100.0	496.	504.	102.	995.0	2033.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1013.	2028.	101.	505.	1010.	507.	1000.
SDev	7.	14.	.	5.	42.	4.	1.
%RSD	.7127	.6739	.285	1.03	4.14	.879	.063
#1	1018.	2037.	102.	501.	1040.	511.	1000.
#2	1008.	2018.	101.	509.	981.	504.	1000.

Analysis Report

08/04/03 07:35:39 AM

page 1

Method: 6010B Sample Name: 03ws1149

Operator: pps

Run Time: 08/04/03 07:28:15

Comment: 55555,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	518.	510.	257.	480.	51.8	49.5	100.
SDev	9.	14.	3.	1.	.1	.1	1.
%RSD	1.68	2.81	1.31	.108	.131	.175	.681
#1	512.	500.	260.	481.	51.8	49.5	101.
#2	524.	520.	255.	480.	51.7	49.4	99.8
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	251.	101.	252.	247.	496.	254.	249.
SDev	1.	1.	3.	6.	11.	2.	9.
%RSD	.395	.514	1.03	2.30	2.13	.663	3.69
#1	252.	101.	250.	243.	488.	255.	242.
#2	250.	100.	254.	251.	503.	253.	255.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	243.	48.8	241.	247.	51.0	481.6	1011.
SDev	3.	.2	3.	.	.1	1.2	5.
%RSD	1.20	.346	1.33	.023	.126	.2465	.5305
#1	241.	49.0	239.	247.	51.1	482.5	1015.
#2	245.	48.7	244.	247.	51.0	480.8	1007.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497.9	1031.	49.7	248.	512.	245.	505.
SDev	2.6	3.	.0	5.	12.	5.	.
%RSD	.5138	.2433	.089	1.87	2.43	2.04	.018
#1	496.1	1032.	49.7	245.	504.	241.	505.
#2	499.7	1029.	49.6	252.	521.	249.	505.

Analysis Report

08/04/03 07:43:10 AM

page 1

Method: 6010B Sample Name: icb
 Run Time: 08/04/03 07:40:01
 Comment: 55555,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.9	18.9	-3.20	.132	-.266	.154	-.249
SDev	7.9	6.4	3.48	.123	.047	.074	.002
%RSD	42.1	33.9	109.	93.2	17.6	48.3	.855
#1	24.5	23.4	-5.65	.220	-.299	.206	-.248
#2	13.2	14.3	-.737	.045	-.233	.101	-.251
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.799	.077	-1.81	-.773	2.62	.111	4.64
SDev	.030	.001	1.57	1.065	1.96	.395	.61
%RSD	3.76	1.39	86.4	138.	74.5	355.	13.1
#1	.778	.076	-.706	-.020	4.01	-.168	4.21
#2	.820	.078	-2.92	-1.53	1.24	.390	5.07
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.211	-.380	4.57	-.359	1.38	-.7903	6.501
SDev	4.381	.100	3.60	.020	.23	.9818	.111
%RSD	2080.	26.3	78.7	5.58	17.1	124.2	1.713
#1	2.89	-.309	7.11	-.345	1.54	-.0961	6.580
#2	-3.31	-.450	2.03	-.373	1.21	-1.485	6.422
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.714	-1.355	.014	-1.12	18.9	1.41	2.53
SDev	5.481	1.128	.012	1.23	6.9	2.72	.20
%RSD	71.06	83.24	87.0	110.	36.6	193.	8.12
#1	-3.838	-.5574	.005	-.249	23.7	3.33	2.67
#2	-11.59	-2.152	.022	-1.99	14.0	-.517	2.38

Method: 6010B Sample Name: 03ws1263

Operator: pps

Run Time: 08/04/03 07:56:10

Comment: 55555,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	78.4	71.3	3.07	9.44	1.71	4.69	9.31
SDev	7.1	4.8	2.06	.10	.04	.38	.33
%RSD	9.02	6.74	67.1	1.05	2.32	8.11	3.49
#1	73.4	67.9	1.61	9.37	1.68	4.95	9.54
#2	83.4	74.7	4.53	9.51	1.74	4.42	9.08
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.4	9.79	-3.48	4.40	19.0	19.9	6.22
SDev	.0	.10	1.33	.35	.4	.3	2.75
%RSD	.168	1.05	38.4	7.97	2.09	1.29	44.3
#1	19.4	9.72	-2.54	4.15	18.7	20.1	8.17
#2	19.4	9.86	-4.42	4.65	19.2	19.7	4.27
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.54	4.48	3.17	9.57	21.4	90.73	212.3
SDev	8.03	.35	3.93	.37	.1	.58	2.1
%RSD	227.	7.81	124.	3.83	.611	.6384	.9992
#1	-2.14	4.23	5.95	9.31	21.3	91.14	210.8
#2	9.22	4.72	.391	9.83	21.5	90.32	213.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	95.50	209.6	9.65	1.77	73.7	4.44	2.17
SDev	2.39	2.9	.09	.21	5.6	4.44	.03
%RSD	2.500	1.401	.939	11.9	7.55	100.	1.52
#1	93.81	207.5	9.59	1.92	69.7	1.30	2.19
#2	97.19	211.7	9.71	1.63	77.6	7.57	2.14

Analysis Report

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Method: 6010B Sample Name: 03ws1089

Operator: pps

Run Time: 08/04/03 08:00:26

Comment: 55555,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	489.	525.	542.	481.	512.	971.	475.
SDev	53.	10.	3.	2.	.	3.	.
%RSD	10.9	1.82	.488	.376	.061	.322	.074
#1	451.	532.	544.	482.	512.	973.	475.
#2	526.	518.	540.	479.	512.	968.	475.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	480.	505.	902.	1040.	461.	1030.	566.
SDev	1.	1.	7.	82.	25.	2.	3.
%RSD	.215	.164	.740	7.86	5.50	.195	.541
#1	480.	506.	907.	982.	443.	1030.	568.
#2	479.	505.	897.	1100.	479.	1030.	563.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.	1020.	467.	487.	1020.	514600.	464500.
SDev	34.	2.	6.	2.	1.	254.	80.
%RSD	6.84	.186	1.34	.315	.087	.0494	.0173
#1	475.	1020.	472.	488.	1020.	514700.	464400.
#2	523.	1010.	463.	485.	1020.	514400.	464500.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	185600.	519400.	484.	994.	513.	521.	1990.
SDev	117.	550.	1.	52.	11.	22.	4.
%RSD	.0631	.1059	.173	5.26	2.21	4.17	.186
#1	185500.	519800.	484.	957.	505.	506.	1990.
#2	185700.	519000.	483.	1030.	521.	536.	1990.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150
 Run Time: 08/04/03 08:44:05
 Comment: 83386,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	490.	487.	253.	466.	51.7	48.9	98.5
SDev	17.	5.	3.	1.	.1	.3	.2
%RSD	3.50	1.05	1.02	.121	.132	.702	.153
#1	478.	483.	255.	466.	51.7	48.6	98.6
#2	502.	490.	252.	466.	51.6	49.1	98.4
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	98.2	247.	241.	473.	251.	262.
SDev	1.	.2	2.	15.	18.	1.	15.
%RSD	.420	.155	.985	6.42	3.85	.491	5.74
#1	246.	98.1	246.	230.	460.	252.	251.
#2	248.	98.3	249.	252.	486.	250.	273.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	236.	47.8	241.	242.	50.7	475.4	1013.
SDev	9.	.1	4.	.	.1	5.8	3.
%RSD	4.00	.152	1.83	.204	.108	1.211	.3039
#1	230.	47.7	244.	243.	50.7	479.5	1015.
#2	243.	47.8	238.	242.	50.7	471.4	1011.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	526.5	1015.	48.8	243.	488.	245.	492.
SDev	14.4	6.	.2	11.	9.	11.	2.
%RSD	2.745	.5932	.338	4.57	1.87	4.62	.379
#1	536.7	1020.	49.0	235.	481.	237.	491.
#2	516.2	1011.	48.7	251.	494.	253.	493.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 08:48:05
 Comment: 83386,1
 Mode: CONC Corr. Factor: 1

Operator: pps

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.22	-3.07	-1.65	.245	.114	-.266	-.357
SDev	5.02	4.87	1.24	.101	.144	.201	.029
%RSD	61.1	158.	75.1	41.1	126.	75.5	8.05
#1	11.8	-6.51	-.774	.174	.216	-.408	-.378
#2	4.67	.367	-2.53	.316	.012	-.124	-.337
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.726	.427	-2.77	2.43	4.56	.079	6.66
SDev	.458	.605	4.88	2.30	.41	.029	3.25
%RSD	63.0	141.	176.	94.6	8.95	36.2	48.8
#1	.403	-.000	-6.22	4.05	4.85	.099	4.36
#2	1.05	.855	.683	.804	4.27	.059	8.96
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.05	-.606	3.77	-.306	1.42	-16.73	13.08
SDev	.13	.269	6.80	.260	.16	1.00	.96
%RSD	2.17	44.4	180.	84.8	11.2	5.964	7.303
#1	-5.95	-.796	8.58	-.490	1.31	-17.44	13.76
#2	-6.14	-.416	-1.04	-.123	1.53	-16.02	12.41
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.10	4.534	.221	.697	.689	-1.81	3.33
SDev	1.59	1.430	.004	.094	1.57	1.00	.16
%RSD	9.898	31.54	2.04	13.5	228.	55.0	4.90
#1	14.97	5.545	.218	.631	-.422	-2.52	3.44
#2	17.23	3.523	.224	.764	1.80	-1.11	3.21

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 08/04/03 09:39:45

Comment: 83386,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	484.	490.	258.	467.	51.5	48.9	97.6
SDev	16.	11.	3.	2.	.1	.2	.8
%RSD	3.36	2.32	1.24	.337	.271	.351	.783
#1	473.	482.	261.	468.	51.6	48.8	98.1
#2	496.	498.	256.	465.	51.4	49.0	97.0
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.	97.1	246.	243.	476.	251.	264.
SDev	.	.3	1.	10.	13.	.	4.
%RSD	.096	.294	.597	4.31	2.66	.042	1.67
#1	246.	97.3	245.	235.	467.	251.	261.
#2	246.	96.9	247.	250.	485.	251.	267.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	48.5	234.	241.	50.7	474.5	986.9
SDev	1.	.1	8.	.	.2	.3	2.7
%RSD	.562	.168	3.62	.134	.310	.0628	.2759
#1	249.	48.6	228.	241.	50.8	474.7	988.9
#2	247.	48.5	240.	241.	50.6	474.3	985.0
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.6	1004.	48.1	244.	488.	253.	488.
SDev	2.1	1.	.1	7.	13.	1.	.
%RSD	.4115	.0902	.301	3.06	2.67	.216	.079
#1	503.1	1004.	48.2	238.	479.	253.	487.
#2	506.1	1005.	48.0	249.	497.	253.	488.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 09:44:41
 Comment: 83386,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.53	.733	1.01	.222	.426	-.162	.185
SDev	4.78	4.04	4.77	.000	.055	.196	.301
%RSD	106.	552.	470.	.127	12.8	121.	163.
#1	7.91	3.59	4.38	.222	.465	-.024	.397
#2	1.15	-2.13	-2.35	.223	.387	-.301	-.028
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.16	.244	-4.00	-1.16	4.64	.236	12.9
SDev	.41	.037	.32	2.44	.19	.012	1.1
%RSD	35.2	15.1	8.02	211.	4.15	5.27	8.23
#1	1.45	.218	-4.22	-2.89	4.50	.244	13.6
#2	.871	.271	-3.77	.567	4.77	.227	12.1
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.20	-.100	-.772	-.257	1.26	-21.13	3.363
SDev	2.60	.550	2.024	.222	.03	.90	.803
%RSD	28.2	549.	262.	86.4	2.51	4.281	23.89
#1	-11.0	-.489	.659	-.413	1.28	-21.77	3.931
#2	-7.37	.289	-2.20	-.100	1.24	-20.49	2.795
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.78	2.462	.160	-2.10	2.00	-1.85	2.86
SDev	5.21	.721	.081	1.73	4.29	1.38	.21
%RSD	26.34	29.28	50.7	82.4	215.	74.6	7.27
#1	23.47	2.972	.218	-3.33	5.03	-2.82	3.01
#2	16.10	1.953	.103	-.878	-1.03	-.872	2.72

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/04/03 10:40:50

Comment: 83387,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	772.	765.	381.	735.	76.1	72.6	149.
SDev	10.	8.	1.	1.	.1	.5	.
%RSD	1.30	1.10	.247	.124	.167	.666	.252
#1	764.	759.	382.	735.	76.2	72.9	149.
#2	779.	771.	381.	734.	76.0	72.2	150.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	153.	369.	354.	721.	376.	365.
SDev	1.	.	7.	23.	28.	1.	5.
%RSD	.149	.082	1.80	6.52	3.83	.260	1.32
#1	369.	152.	365.	338.	701.	376.	368.
#2	369.	153.	374.	370.	740.	375.	361.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	357.	70.3	358.	369.	73.6	731.6	1475.
SDev	.	.2	3.	.	.1	1.4	2.
%RSD	.008	.302	.847	.135	.204	.1948	.1346
#1	358.	70.2	356.	368.	73.5	732.6	1476.
#2	357.	70.5	360.	369.	73.7	730.6	1473.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	731.6	1503.	73.4	359.	767.	360.	747.
SDev	5.1	3.	.3	18.	9.	2.	3.
%RSD	.6948	.2151	.348	4.90	1.17	.451	.347
#1	735.2	1501.	73.6	347.	761.	361.	746.
#2	728.0	1505.	73.3	372.	773.	359.	749.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 10:48:45
 Comment: 83387,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.5	11.2	.115	.394	.561	-.010	.045
SDev	5.4	11.1	3.25	.154	.033	.109	.170
%RSD	23.1	98.8	2820.	39.2	5.80	1130.	380.
#1	27.3	19.1	2.41	.503	.538	.067	.165
#2	19.7	3.39	-2.18	.284	.584	-.086	-.075
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.30	.300	-1.88	1.49	9.18	.213	13.7
SDev	.47	.255	1.69	1.80	1.80	.029	.2
%RSD	35.9	85.0	89.9	121.	19.7	13.6	1.39
#1	1.63	.480	-3.07	.218	10.5	.193	13.5
#2	.968	.120	-.683	2.77	7.90	.234	13.8
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-13.9	-.005	1.17	-.327	1.03	-29.29	-.1522
SDev	.7	.793	3.55	.126	.08	.82	.7911
%RSD	5.37	17400.	304.	38.4	7.49	2.799	519.8
#1	-13.4	.556	-1.34	-.238	1.08	-29.87	-.7115
#2	-14.4	-.566	3.68	-.416	.974	-28.71	.4072
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.7178	3.498	.087	.370	15.3	-4.71	3.08
SDev	1.3479	5.132	.086	1.76	9.2	.43	.56
%RSD	187.8	146.7	97.9	477.	60.1	9.22	18.2
#1	.2353	7.126	.148	-.877	21.8	-4.40	3.47
#2	-1.671	-.1311	.027	1.62	8.81	-5.01	2.68

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150

Operator: mw

Run Time: 08/04/03 12:24:32

Comment: 83387,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	542.	527.	254.	490.	50.8	48.8	100.
SDev	8.	2.	.	.	.0	.2	.
%RSD	1.50	.339	.000	.047	.055	.467	.201
#1	536.	526.	254.	490.	50.9	48.6	100.
#2	547.	528.	254.	490.	50.8	48.9	100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	102.	248.	249.	498.	249.	248.
SDev	.	.	.	1.	2.	.	2.
%RSD	.033	.332	.029	.326	.419	.002	.857
#1	247.	102.	248.	250.	496.	249.	246.
#2	247.	101.	248.	249.	499.	249.	249.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	244.	52.4	243.	247.	51.5	489.4	989.9
SDev	1.	.1	.	.	.1	1.0	1.6
%RSD	.474	.174	.104	.012	.271	.1981	.1580
#1	245.	52.5	243.	247.	51.6	490.1	991.1
#2	243.	52.4	243.	247.	51.4	488.7	988.8
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.2	1006.	49.4	249.	532.	245.	506.
SDev	2.5	1.	.0	1.	4.	.	.
%RSD	.5177	.0659	.018	.228	.734	.026	.002
#1	494.0	1005.	49.4	249.	529.	245.	506.
#2	490.4	1006.	49.4	248.	535.	245.	506.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 12:34:36
 Comment: 83387,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.7	14.1	1.69	-.105	.032	.100	-.070
SDev	8.5	3.1	.80	.037	.003	.052	.025
%RSD	58.0	21.7	47.0	35.1	10.1	52.1	36.0
#1	20.7	16.3	1.13	-.079	.029	.137	-.088
#2	8.66	12.0	2.26	-.131	.034	.063	-.052
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.032	.206	-.512	-.661	-7.81	.099	-.539
SDev	.115	.025	.612	.167	.19	.031	5.977
%RSD	354.	12.1	119.	25.2	2.44	31.0	1110.
#1	.114	.188	-.945	-.543	-7.68	.077	-4.77
#2	-.049	.223	-.079	-.778	-7.95	.121	3.69
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.20	.074	2.08	-.039	-.010	-.7416	-1.171
SDev	2.35	.083	2.44	.031	.077	.9626	.736
%RSD	107.	112.	117.	80.7	750.	129.8	62.86
#1	-.537	.015	.356	-.061	.044	-1.422	-.6508
#2	-3.86	.132	3.80	-.017	-.064	-.0609	-1.692
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2544	1.524	.050	-.611	14.3	-1.65	-.974
SDev	.1360	.332	.006	.093	4.9	.43	.076
%RSD	53.45	21.75	11.8	15.2	34.1	25.9	7.85
#1	-.3505	1.290	.055	-.677	17.8	-1.95	-.920
#2	-.1583	1.759	.046	-.545	10.9	-1.34	-1.03

Analysis Report

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Method: 6010B Sample Name: 02ws1151

Operator: mw

Run Time: 08/04/03 13:20:56

Comment: 83380,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	738.	735.	394.	740.	76.8	76.0	151.
SDev	12.	8.	2.	3.	.5	.6	1.
%RSD	1.67	1.13	.509	.434	.602	.838	.477
#1	730.	729.	395.	742.	77.1	76.5	151.
#2	747.	741.	392.	737.	76.5	75.6	150.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	372.	149.	373.	356.	736.	384.	387.
SDev	1.	1.	5.	33.	26.	2.	1.
%RSD	.305	.340	1.45	9.40	3.50	.498	.290
#1	373.	149.	369.	333.	718.	386.	387.
#2	372.	148.	377.	380.	755.	383.	388.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	378.	71.0	374.	367.	74.5	724.7	1455.
SDev	4.	.3	5.	2.	1.4	7.1	13.
%RSD	1.15	.417	1.28	.496	1.93	.9854	.8979
#1	375.	71.2	377.	369.	75.5	729.7	1464.
#2	381.	70.8	370.	366.	73.5	719.6	1446.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	735.3	1527.	72.4	362.	736.	381.	750.
SDev	2.4	12.	.4	24.	10.	3.	1.
%RSD	.3241	.7819	.524	6.67	1.31	.858	.193
#1	737.0	1536.	72.6	345.	729.	379.	751.
#2	733.6	1519.	72.1	379.	743.	383.	749.

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Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 13:26:54
 Comment: 83380,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.56	-12.7	.380	-.107	.665	.109	-.114
SDev	2.77	.6	.531	.012	.028	.028	.213
%RSD	32.4	4.67	140.	10.8	4.20	25.3	187.
#1	-6.60	-13.1	.004	-.115	.684	.129	-.265
#2	-10.5	-12.2	.755	-.099	.645	.090	.037
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.073	-.381	-.636	-1.81	-7.53	.487	-1.53
SDev	.080	.014	.495	.28	.48	.128	2.33
%RSD	110.	3.75	77.9	15.5	6.33	26.4	152.
#1	-.130	-.371	-.286	-1.61	-7.87	.396	-3.18
#2	-.016	-.391	-.986	-2.01	-7.19	.578	.113
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.99	-.099	.946	-.238	-1.47	8.026	-.7801
SDev	1.19	.100	.961	.140	.38	.365	.7375
%RSD	29.9	102.	102.	58.7	26.0	4.550	94.54
#1	-4.83	-.169	1.63	-.337	-1.20	8.284	-.2586
#2	-3.15	-.028	.266	-.139	-1.74	7.767	-1.302
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.368	2.932	.031	-1.42	-11.3	-3.17	-.459
SDev	5.872	2.654	.034	.35	.5	1.57	.196
%RSD	248.0	90.53	112.	24.8	4.70	49.5	42.7
#1	6.520	4.809	.055	-1.17	-10.9	-4.28	-.321
#2	-1.784	1.055	.006	-1.67	-11.7	-2.06	-.598

Analysis Report

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Method: 6010B Sample Name: qc220915 Operator: mw
 Run Time: 08/04/03 13:48:50
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-11.3	3.49	12.0	25.0	1.52	2.62	28.3
SDev	10.5	9.19	3.5	.1	.05	.39	1.5
%RSD	92.6	264.	29.6	.529	3.18	14.7	5.19
#1	-18.7	9.99	14.5	25.1	1.49	2.89	29.4
#2	-3.90	-3.01	9.46	24.9	1.56	2.35	27.3
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.49	3.35	38.0	21.5	-5.77	10.2	2.66
SDev	1.17	.41	9.5	6.7	1.94	.9	10.9
%RSD	21.3	12.1	25.1	31.0	33.7	8.91	412.
#1	6.32	3.64	44.8	16.8	-4.40	10.9	10.4
#2	4.66	3.07	31.3	26.2	-7.14	9.59	-5.09
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.16	3.40	6.96	9.48	26.7	1015.	658.6
SDev	9.19	1.91	.70	1.17	.6	14.	14.6
%RSD	128.	56.3	10.0	12.4	2.32	1.331	2.223
#1	.663	4.75	7.45	10.3	26.3	1005.	648.2
#2	13.7	2.04	6.47	8.65	27.2	1024.	668.9
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1636.	506.6	28.4	27.0	-1.44	5.66	63.6
SDev	24.	14.4	.6	1.3	2.64	2.48	1.0
%RSD	1.471	2.849	2.04	4.69	184.	43.8	1.64
#1	1619.	496.4	28.0	26.1	.433	3.91	62.9
#2	1653.	516.8	28.8	27.9	-3.31	7.41	64.4

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page 1

Method: 6010B Sample Name: qc220916 Operator: mw
 Run Time: 08/04/03 13:52:18
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1950.	1980.	913.	1870.	47.6	181.	1820.
SDev	73.	6.	22.	12.	.9	4.	35.
%RSD	3.75	.316	2.37	.638	1.95	2.20	1.94
#1	1900.	1970.	898.	1860.	47.0	178.	1800.
#2	2010.	1980.	929.	1880.	48.3	184.	1850.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	439.	228.	1780.	1760.	372.	455.	824.
SDev	8.	2.	3.	71.	11.	8.	5.
%RSD	1.85	.784	.194	4.02	2.85	1.71	.619
#1	433.	227.	1780.	1710.	364.	449.	827.
#2	444.	230.	1770.	1810.	379.	460.	820.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	848.	181.	887.	457.	438.	17260.	17470.
SDev	33.	1.	32.	6.	9.	160.	402.
%RSD	3.94	.719	3.63	1.42	1.98	.9282	2.304
#1	824.	180.	864.	453.	432.	17150.	17180.
#2	871.	182.	909.	462.	445.	17380.	17750.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17740.	17660.	433.	1760.	1970.	840.	929.
SDev	369.	391.	8.	46.	29.	21.	13.
%RSD	2.081	2.214	1.80	2.60	1.45	2.45	1.44
#1	17480.	17380.	428.	1730.	1950.	825.	919.
#2	18000.	17930.	439.	1800.	1990.	854.	938.

Method: 6010B Sample Name: qc220917

Operator: mw

Run Time: 08/04/03 13:55:46

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1990.	1980.	926.	1880.	48.2	184.	1840.
SDev	37.	10.	5.	6.	.4	1.	15.
%RSD	1.85	.518	.487	.323	.836	.762	.818
#1	1960.	1970.	923.	1880.	47.9	183.	1830.
#2	2010.	1990.	929.	1890.	48.5	185.	1850.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	444.	229.	1780.	1800.	381.	460.	824.
SDev	3.	1.	4.	31.	4.	4.	9.
%RSD	.582	.308	.216	1.72	.997	.773	1.11
#1	442.	229.	1780.	1770.	378.	457.	817.
#2	446.	230.	1780.	1820.	384.	462.	830.
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	865.	182.	906.	461.	445.	17410.	17670.
SDev	11.	1.	18.	3.	3.	83.	163.
%RSD	1.25	.586	2.00	.686	.786	.4765	.9230
#1	857.	181.	894.	459.	442.	17350.	17550.
#2	872.	183.	919.	463.	447.	17470.	17780.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17930.	17880.	437.	1790.	1980.	851.	939.
SDev	132.	162.	3.	22.	19.	10.	6.
%RSD	.7381	.9065	.790	1.22	.963	1.21	.664
#1	17830.	17760.	434.	1770.	1970.	844.	934.
#2	18020.	17990.	439.	1810.	2000.	858.	943.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089 Operator: mw
 Run Time: 08/04/03 14:21:21
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	427.	445.	504.	445.	430.	871.	414.
SDev	17.	14.	3.	1.	2.	4.	1.
%RSD	3.95	3.14	.564	.269	.443	.436	.355

#1	416.	435.	506.	446.	431.	874.	415.
#2	439.	455.	502.	444.	428.	868.	413.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	413.	454.	799.	955.	421.	909.	481.
SDev	2.	1.	3.	17.	10.	3.	5.
%RSD	.387	.232	.317	1.78	2.46	.281	1.10

#1	414.	455.	800.	943.	414.	911.	477.
#2	411.	453.	797.	967.	429.	907.	484.

Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	478.	963.	432.	423.	924.	431200.	353200.
SDev	10.	5.	3.	2.	3.	1371.	1723.
%RSP	2.12	.479	.588	.405	.297	.3179	.4879

#1	471.	967.	434.	425.	926.	432200.	354400.
#2	485.	960.	430.	422.	922.	430300.	351900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	159800.	456200.	406.	903.	439.	479.	1780.
SDev	601.	1771.	2.	10.	15.	9.	4.
%RSD	.3760	.3882	.475	1.16	3.40	1.78	.211

#1	160200.	457400.	408.	896.	428.	473.	1780.
#2	159300.	454900.	405.	910.	450.	485.	1780.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-003

Operator: mw

Run Time: 08/04/03 13:59:24

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.92	2.62	44.1	944.	5.33	28.9	1090.
SDev	1.36	6.01	3.3	4.	.04	.0	9.
%RSD	27.7	229.	7.42	.433	.791	.155	.809
#1	5.88	6.87	46.5	941.	5.30	28.9	1090.
#2	3.96	-1.63	41.8	946.	5.36	28.8	1100.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	191.	185.	845.	869.	-5.15	891.	-2.82
SDev	1.	.	2.	18.	3.32	7.	4.79
%RSD	.603	.111	.263	2.02	64.6	.820	170.
#1	190.	185.	847.	857.	-2.80	885.	.575
#2	191.	185.	844.	882.	-7.49	896.	-6.20
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.944	3.19	1.98	669.	800.	133600.	51940.
SDev	1.03	.25	.28	5.	7.	877.	576.
%RSD	109.	7.80	14.1	.768	.894	.6562	1.108
#1	.218	3.36	2.18	666.	795.	133000.	51540.
#2	1.67	3.01	1.78	673.	805.	134200.	52350.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	244600.	49940.	4760.	861.	3.39	-.309	8740.
SDev	2453.	524.	46.	11.	4.46	.914	80.
%RSD	1.003	1.050	.970	1.27	132.	296.	.911
#1	242900.	49570.	4730.	854.	6.54	.337	8680.
#2	246300.	50320.	4800.	869.	.233	-.955	8800.

Analysis Report

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Method: 6010B Sample Name: qc220918

Operator: mw

Run Time: 08/04/03 14:02:52

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	875.	895.	896.	2820.	50.0	198.	2720.
SDev	25.	9.	13.	20.	.4	1.	27.
%RSD	2.81	1.03	1.41	.710	.869	.648	.999

#1	858.	901.	887.	2810.	49.7	197.	2700.
#2	892.	888.	905.	2840.	50.3	199.	2740.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	593.	412.	2420.	2480.	328.	1290.	773.
SDev	6.	3.	8.	53.	6.	13.	2.
%RSD	.979	.616	.314	2.13	1.98	.994	.304

#1	589.	410.	2420.	2440.	323.	1280.	774.
#2	598.	414.	2430.	2510.	332.	1300.	771.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	804.	181.	852.	1090.	1200.	163600.	68280.
SDev	18.	1.	8.	9.	12.	1297.	695.
%RSD	2.24	.441	.949	.799	1.01	.7928	1.018

#1	792.	180.	847.	1080.	1190.	162700.	67780.
#2	817.	181.	858.	1100.	1210.	164500.	68770.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	245700.	65360.	4810.	2460.	888.	794.	9740.
SDev	2376.	657.	44.	38.	2.	11.	106.
%RSD	.9670	1.005	.905	1.53	.230	1.41	1.09

#1	244000.	64890.	4780.	2430.	887.	786.	9660.
#2	247300.	65820.	4840.	2490.	890.	802.	9810.

Analysis Report

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Method: 6010B Sample Name: 03ws1150 Operator: mw
 Run Time: 08/04/03 14:09:25
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	457.	464.	264.	493.	51.2	51.3	101.
SDev	8.	7.	3.	2.	.2	.5	1.
%RSD	1.75	1.47	1.26	.317	.406	.999	.512

#1	451.	459.	261.	494.	51.4	51.7	101.
#2	462.	468.	266.	492.	51.1	51.0	100.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	97.3	251.	254.	496.	259.	253.
SDev	1.	.7	1.	3.	7.	1.	1.
%RSD	.463	.693	.340	1.23	1.35	.391	.587

#1	249.	97.8	252.	252.	491.	259.	252.
#2	247.	96.9	250.	257.	500.	258.	254.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.	50.1	255.	244.	48.6	499.8	959.4
SDev	2.	.2	2.	1.	.4	14.1	9.8
%RSD	.790	.444	.749	.435	.895	2.817	1.017

#1	254.	50.2	256.	245.	48.9	509.7	966.3
#2	251.	49.9	253.	243.	48.3	489.8	952.5

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	531.5	1020.	48.5	253.	461.	253.	504.
SDev	24.4	16.	.6	2.	7.	1.	3.
%RSD	4.590	1.528	1.14	.709	1.56	.331	.505

#1	548.7	1031.	48.9	252.	456.	253.	506.
#2	514.2	1009.	48.1	255.	466.	252.	503.

Analysis Report

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Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 14:13:20
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.01	-8.39	1.76	-.036	1.13	.178	.268
SDev	3.26	4.19	.97	.014	.00	.168	.126
%RSD	36.2	49.9	55.4	40.6	.219	94.4	47.1
#1	-6.70	-5.42	2.44	-.025	1.13	.296	.178
#2	-11.3	-11.3	1.07	-.046	1.12	.059	.357
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.032	-.726	-.779	-1.37	-6.67	.003	-.936
SDev	.092	.010	.664	.35	1.98	.005	2.046
%RSD	283.	1.41	85.3	25.4	29.6	155.	219.
#1	-.097	-.719	-1.25	-1.61	-5.27	-.000	-2.38
#2	.032	-.733	-.309	-1.12	-8.07	.006	.511
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.32	-.080	2.03	-.055	-2.23	22.06	-2.534
SDev	.90	.257	3.53	.079	.09	.48	.829
%RSD	27.3	321.	173.	142.	4.00	2.162	32.70
#1	-3.96	-.262	4.53	-.111	-2.17	22.40	-1.948
#2	-2.68	.102	-.460	.000	-2.29	21.72	-3.120
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.40	6.804	.369	-1.17	-8.59	-2.52	.690
SDev	.51	.829	.016	.45	3.88	1.28	.229
%RSD	2.755	12.18	4.43	38.7	45.1	50.9	33.2
#1	18.05	7.390	.381	-1.49	-5.85	-3.43	.852
#2	18.76	6.218	.358	-.850	-11.3	-1.62	.527

Method: 6010B Sample Name: qc220915

Operator: mw

Run Time: 08/04/03 14:17:26

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-14.2	-13.4	-.746	-.202	1.14	.087	.037
SDev	.4	2.1	.354	.069	.02	.080	.000
%RSD	2.57	15.8	47.5	34.4	1.32	91.7	.040
#1	-14.5	-14.9	-.495	-.153	1.15	.144	.037
#2	-13.9	-11.9	-.996	-.251	1.13	.031	.037
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.122	-.660	.021	-2.51	-9.73	-.102	.085
SDev	.103	.021	.190	.64	.10	.006	.441
%RSD	84.9	3.16	911.	25.4	.979	6.09	517.
#1	-.049	-.674	-.114	-2.06	-9.80	-.107	-.227
#2	-.195	-.645	.156	-2.96	-9.67	-.098	.397
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.07	-.173	1.49	-.191	-2.48	18.07	-4.812
SDev	1.70	.013	1.73	.093	.04	.12	.553
%RSD	159.	7.58	116.	48.6	1.52	.6776	11.49
#1	-2.27	-.182	2.71	-.256	-2.46	18.16	-4.421
#2	.131	-.163	.265	-.125	-2.51	17.99	-5.203
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.84	5.982	.189	-1.66	-13.6	-.685	-.247
SDev	4.96	1.659	.062	.36	1.5	1.279	.194
%RSD	41.93	27.74	33.0	21.6	11.2	187.	78.8
#1	15.35	7.155	.234	-1.41	-14.7	-1.59	-.109
#2	8.329	4.809	.145	-1.92	-12.6	.219	-.384

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Method: 6010B Sample Name: qc220920 Operator: mw
 Run Time: 08/04/03 14:25:36
 Comment: 83339,5
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.62	-9.78	11.2	190.	2.17	6.10	228.
SDev	4.06	1.03	.0	.	.02	.15	.
%RSD	72.4	10.6	.007	.048	.866	2.50	.000
#1	-2.74	-9.04	11.2	190.	2.19	6.21	228.
#2	-8.49	-10.5	11.2	190.	2.16	5.99	228.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	40.1	34.8	179.	184.	-7.35	190.	-4.50
SDev	.1	.0	.	.	1.44	1.	.24
%RSD	.372	.142	.237	.172	19.6	.295	5.36
#1	40.2	34.8	179.	184.	-6.33	190.	-4.67
#2	40.0	34.9	180.	184.	-8.37	191.	-4.33
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.511	.783	2.26	138.	167.	27030.	10950.
SDev	6.420	.004	.83	.	.	51.	1.
%RSD	1260.	.557	36.8	.030	.026	.1883	.0116
#1	-5.05	.779	2.85	138.	167.	27070.	10950.
#2	4.03	.786	1.67	138.	167.	26990.	10950.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51310.	10630.	982.	182.	-8.39	-1.84	1730.
SDev	62.	10.	1.	.	2.04	4.36	2.
%RSD	.1213	.0967	.114	.038	24.4	237.	.109
#1	51260.	10630.	981.	182.	-6.94	-4.93	1730.
#2	51350.	10620.	983.	182.	-9.84	1.24	1730.

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Method: 6010B Sample Name: qc220919

Operator: mw

Run Time: 08/04/03 14:32:04

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	915.	944.	898.	2740.	50.0	199.	2800.
SDev	39.	6.	7.	19.	.7	2.	41.
%RSD	4.28	.669	.724	.709	1.31	1.03	1.46

#1	888.	939.	894.	2720.	49.6	197.	2770.
#2	943.	948.	903.	2750.	50.5	200.	2830.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	590.	403.	2420.	2460.	329.	1300.	772.
SDev	9.	3.	11.	71.	8.	18.	5.
%RSD	1.47	.818	.462	2.90	2.58	1.36	.617

#1	584.	400.	2410.	2410.	323.	1290.	768.
#2	596.	405.	2420.	2510.	335.	1310.	775.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	807.	178.	855.	1090.	1200.	161100.	67140.
SDev	21.	2.	11.	13.	17.	1725.	1056.
%RSD	2.66	1.05	1.27	1.18	1.42	1.071	1.572

#1	791.	176.	847.	1080.	1190.	159900.	66400.
#2	822.	179.	862.	1100.	1210.	162300.	67890.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247800.	66130.	4770.	2440.	934.	795.	9770.
SDev	3548.	1011.	65.	51.	17.	16.	141.
%RSD	1.432	1.529	1.37	2.09	1.85	2.00	1.44

#1	245300.	65420.	4730.	2410.	922.	784.	9670.
#2	250300.	66850.	4820.	2480.	947.	806.	9870.

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Method: 6010B Sample Name: 166599-004

Operator: mw

Run Time: 08/04/03 14:35:42

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.6	23.2	42.9	595.	5.70	27.4	1200.
SDev	7.6	6.3	4.0	4.	.07	.1	13.
%RSD	37.1	27.4	9.38	.588	1.20	.410	1.11
#1	15.2	27.6	45.8	593.	5.66	27.3	1190.
#2	26.0	18.7	40.1	598.	5.75	27.5	1210.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	176.	146.	1740.	1780.	-7.20	864.	-3.26
SDev	2.	1.	9.	41.	2.04	9.	.83
%RSD	1.11	.473	.538	2.27	28.3	1.10	25.5
#1	174.	146.	1740.	1750.	-5.76	858.	-2.67
#2	177.	147.	1750.	1810.	-8.64	871.	-3.85
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.47	-.083	3.30	648.	432.	134100.	36410.
SDev	5.47	.697	2.27	6.	5.	910.	465.
%RSD	373.	838.	68.9	.893	1.20	.6791	1.278
#1	-5.33	.410	4.90	644.	428.	133400.	36080.
#2	2.40	-.576	1.69	652.	435.	134700.	36740.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240600.	50050.	3770.	1770.	22.3	-2.06	8000.
SDev	2882.	630.	41.	30.	1.7	3.37	83.
%RSD	1.198	1.258	1.09	1.70	7.58	163.	1.03
#1	238600.	49600.	3740.	1750.	23.5	-4.45	7950.
#2	242700.	50490.	3800.	1790.	21.1	.319	8060.

Method: 6010B Sample Name: qc220921

Operator: mw

Run Time: 08/04/03 14:39:10

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	920.	937.	839.	2450.	48.1	194.	2830.
SDev	33.	6.	1.	12.	.3	1.	24.
%RSD	3.56	.605	.110	.481	.665	.537	.854
#1	897.	933.	839.	2440.	47.8	193.	2810.
#2	943.	941.	840.	2460.	48.3	194.	2840.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	584.	377.	3010.	3090.	301.	1370.	702.
SDev	4.	2.	15.	61.	6.	12.	8.
%RSD	.667	.456	.510	1.98	2.10	.842	1.08
#1	581.	376.	3000.	3050.	296.	1360.	707.
#2	587.	378.	3020.	3130.	305.	1380.	697.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	732.	165.	814.	1120.	896.	180700.	60890.
SDev	17.	.	12.	7.	7.	918.	525.
%RSD	2.29	.301	1.51	.597	.775	.5079	.8617
#1	721.	165.	805.	1120.	891.	180100.	60520.
#2	744.	165.	823.	1130.	900.	181400.	61260.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	285800.	72270.	4520.	3060.	932.	722.	10100.
SDev	2340.	712.	33.	46.	15.	9.	80.
%RSD	.8188	.9853	.731	1.50	1.58	1.20	.793
#1	284200.	71770.	4490.	3030.	921.	716.	10100.
#2	287500.	72780.	4540.	3100.	942.	728.	10200.

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Method: 6010B Sample Name: qc220922
 Run Time: 08/04/03 14:42:39
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	986.	1010.	866.	2440.	49.8	200.	2880.
SDev	27.	3.	4.	7.	.3	1.	22.
%RSD	2.72	.299	.419	.275	.523	.522	.757
#1	967.	1010.	863.	2430.	49.6	199.	2870.
#2	1010.	1000.	868.	2440.	50.0	201.	2900.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	582.	319.	1770.	1820.	316.	1360.	712.
SDev	3.	1.	1.	35.	2.	7.	5.
%RSD	.536	.210	.032	1.90	.535	.487	.647
#1	580.	318.	1770.	1790.	315.	1350.	708.
#2	585.	319.	1770.	1840.	318.	1360.	715.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	762.	168.	849.	1120.	890.	169900.	58240.
SDev	5.	1.	9.	7.	6.	690.	478.
%RSD	.709	.355	1.05	.584	.684	.4062	.8208
#1	758.	168.	842.	1110.	886.	169400.	57900.
#2	765.	169.	855.	1120.	894.	170400.	58570.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	270900.	71120.	4180.	1800.	1000.	745.	9550.
SDev	1889.	563.	29.	23.	6.9	5.	66.
%RSD	.6970	.7911	.690	1.29	.693	.689	.693
#1	269600.	70720.	4160.	1780.	995.	741.	9510.
#2	272300.	71520.	4200.	1820.	1000.	749.	9600.

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Method: 6010B Sample Name: 166599-001

Operator: mw

Run Time: 08/04/03 14:46:14

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.15	8.41	74.1	1550.	6.77	51.5	1030.
SDev	4.50	4.00	.8	8.	.02	.6	9.
%RSD	49.2	47.6	1.01	.531	.269	1.10	.845

#1	5.96	11.2	74.6	1540.	6.75	51.1	1030.
#2	12.3	5.58	73.6	1560.	6.78	51.9	1040.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	209.	1350.	2850.	2890.	-1.80	1150.	-3.78
SDev	1.	8.	14.	60.	1.71	10.	.15
%RSD	.611	.580	.488	2.06	95.2	.872	4.07

#1	208.	1340.	2840.	2850.	-.589	1140.	-3.89
#2	209.	1350.	2860.	2940.	-3.01	1160.	-3.67

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.96	2.10	4.94	709.	5120.	143000.	61500.
SDev	3.59	.27	4.06	5.	45.	991.	647.
%RSD	60.2	13.1	82.1	.651	.888	.6934	1.052

#1	-8.50	2.30	7.81	706.	5090.	142300.	61040.
#2	-3.42	1.91	2.07	712.	5150.	143700.	61960.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374500.	51470.	7160.	2880.	8.65	-5.23	7630.
SDev	3540.	513.	65.	44.	1.17	2.44	67.
%RSD	.9452	.9959	.903	1.54	13.5	46.7	.877

#1	372000.	51110.	7110.	2850.	9.48	-6.96	7590.
#2	377000.	51840.	7210.	2910.	7.83	-3.51	7680.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-002

Operator: mw

Run Time: 08/04/03 14:49:43

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.34	-.917	42.2	1090.	6.04	29.7	1120.
SDev	7.09	4.723	3.0	5.	.01	.1	8.
%RSD	112.	515.	7.13	.494	.193	.394	.720
#1	-11.4	2.42	44.3	1080.	6.03	29.6	1110.
#2	-1.32	-4.26	40.1	1090.	6.05	29.8	1120.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	179.	242.	939.	973.	-7.85	873.	-7.69
SDev	1.	.	1.	16.	.88	6.	7.55
%RSD	.660	.181	.074	1.62	11.2	.686	98.2
#1	178.	241.	940.	961.	-7.23	869.	-2.35
#2	180.	242.	939.	984.	-8.47	877.	-13.0
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.64	.126	5.78	655.	1830.	133100.	50790.
SDev	3.30	.305	.24	3.	13.	743.	428.
%RSD	202.	241.	4.16	.443	.709	.5586	.8419
#1	-3.97	.342	5.61	653.	1820.	132600.	50490.
#2	.699	-.089	5.95	657.	1840.	133600.	51090.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	237300.	44990.	6200.	961.	-2.72	-3.65	8750.
SDev	1789.	359.	45.	10.	.78	.32	61.
%RSD	.7539	.7979	.724	1.07	28.8	8.63	.693
#1	236100.	44730.	6170.	954.	-2.17	-3.43	8710.
#2	238600.	45240.	6230.	969.	-3.28	-3.88	8800.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-005 Operator: mw
 Run Time: 08/04/03 14:53:11
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.45	2.15	70.8	829.	9.49	49.1	1850.
SDev	11.7	8.90	4.6	1.	.10	.3	13.
%RSD	214.	414.	6.44	.112	1.00	.708	.678
#1	-2.80	8.44	74.1	828.	9.56	49.3	1840.
#2	13.7	-4.14	67.6	830.	9.42	48.8	1860.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	347.	131.	194.	233.	-8.15	1490.	-5.87
SDev	1.	.	7.	6.	.52	9.	9.18
%RSD	.351	.021	3.62	2.42	6.43	.634	156.
#1	346.	131.	199.	229.	-7.78	1480.	.618
#2	348.	131.	189.	237.	-8.52	1500.	-12.4
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-11.3	-1.72	8.68	1160.	619.	255800.	43740.
SDev	6.6	.24	3.89	4.	4.	1004.	347.
%RSD	58.2	13.7	44.8	.377	.601	.3923	.7930
#1	-16.0	-1.56	5.93	1150.	616.	255100.	43490.
#2	-6.66	-1.89	11.4	1160.	622.	256500.	43980.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	434300.	65670.	8450.	220.	3.25	-9.50	12900.
SDev	2960.	494.	64.	1.	2.05	1.33	74.
%RSD	.6815	.7520	.753	.644	63.0	14.0	.577
#1	432200.	65320.	8400.	219.	4.70	-10.4	12800.
#2	436400.	66020.	8490.	221.	1.80	-8.56	12900.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-006 Operator: mw
 Run Time: 08/04/03 14:56:40
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.92	1.82	57.9	1140.	8.04	49.7	2090.
SDev	5.89	6.19	.2	6.	.02	.1	18.
%RSD	99.5	340.	.382	.563	.229	.164	.881

#1	1.75	6.19	58.1	1130.	8.02	49.7	2080.
#2	10.1	-2.56	57.8	1140.	8.05	49.8	2110.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	316.	216.	685.	731.	-8.53	2030.	-5.69
SDev	3.	1.	1.	20.	.18	19.	9.61
%RSD	.956	.300	.182	2.70	2.09	.925	169.

#1	314.	216.	686.	717.	-8.66	2010.	1.11
#2	318.	217.	684.	745.	-8.40	2040.	-12.5

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-18.5	1.59	5.63	1070.	967.	213600.	83090.
SDev	2.9	.38	5.28	8.	8.	1394.	822.
%RSD	15.7	24.1	93.9	.704	.805	.6525	.9896

#1	-20.6	1.86	1.89	1060.	962.	212600.	82510.
#2	-16.5	1.32	9.36	1070.	973.	214500.	83670.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	409500.	127100.	7230.	716.	3.18	-14.2	11900.
SDev	3664.	1229.	75.	13.	2.16	1.3	99.
%RSD	.8946	.9671	1.04	1.78	67.9	8.88	.832

#1	406900.	126200.	7170.	707.	4.71	-13.3	11800.
#2	412100.	128000.	7280.	725.	1.65	-15.1	12000.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151

Operator: mw

Run Time: 08/04/03 15:02:26

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	737.	738.	382.	738.	77.4	73.8	151.
SDev	5.	7.	3.	2.	.4	.3	1.
%RSD	.717	.950	.893	.306	.485	.366	.374

#1	733.	733.	384.	740.	77.6	74.0	151.
#2	741.	743.	379.	737.	77.1	73.6	150.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	372.	152.	374.	372.	741.	378.	380.
SDev	2.	.	2.	4.	7.	2.	1.
%RSD	.492	.131	.623	1.04	.884	.550	.338

#1	373.	152.	375.	370.	737.	379.	379.
#2	370.	152.	372.	375.	746.	376.	381.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	375.	74.3	365.	371.	73.6	766.7	1497.
SDev	1.	.2	3.	1.	.3	13.4	12.
%RSD	.335	.207	.878	.354	.429	1.753	.8022

#1	376.	74.2	363.	372.	73.8	776.2	1505.
#2	374.	74.4	367.	370.	73.3	757.2	1488.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	791.5	1524.	75.0	373.	737.	377.	755.
SDev	28.8	12.	.8	2.	6.	.	3.
%RSD	3.637	.7677	1.01	.487	.872	.109	.400

#1	811.8	1532.	75.5	372.	733.	377.	757.
#2	771.1	1516.	74.5	374.	742.	376.	753.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 15:09:18
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	35.8	27.6	3.10	.037	-.038	.169	.167
SDev	12.8	6.7	.40	.092	.010	.006	.079
%RSD	35.9	24.1	12.8	247.	25.2	3.83	47.5
#1	44.9	32.3	3.38	.103	-.045	.173	.111
#2	26.7	22.9	2.82	-.028	-.031	.164	.223
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.194	-1.09	1.12	-1.80	-.954	.289	-3.95
SDev	.107	.07	.60	.26	4.094	.261	2.44
%RSD	55.3	6.67	53.8	14.2	429.	90.2	61.8
#1	.270	-1.14	.692	-1.62	1.94	.473	-5.68
#2	.118	-1.04	1.54	-1.98	-3.85	.105	-2.23
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.84	.177	.539	.217	-3.24	22.68	-5.319
SDev	.18	.293	1.53	.008	.05	1.41	.815
%RSD	3.67	166.	285.	3.58	1.61	6.220	15.32
#1	-4.96	-.031	1.62	.212	-3.20	23.68	-4.743
#2	-4.71	.384	-.545	.223	-3.28	21.68	-5.895
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.03	5.840	.329	-.830	30.3	-4.54	.503
SDev	2.21	1.548	.076	.029	8.7	.93	.526
%RSD	12.24	26.51	23.2	3.53	28.7	20.5	105.
#1	19.59	6.934	.383	-.850	36.5	-5.20	.875
#2	16.47	4.745	.275	-.809	24.2	-3.88	.131

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-008 Operator: mw
 Run Time: 08/04/03 15:16:08
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.73	-5.45	43.0	896.	3.31	16.1	656.
SDev	6.34	4.18	2.0	1.	.03	.1	2.
%RSD	134.	76.8	4.63	.085	1.000	.755	.348
#1	9.21	-2.49	44.4	896.	3.28	16.2	654.
#2	.245	-8.41	41.6	897.	3.33	16.0	657.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	87.6	89.0	59.7	64.3	-7.98	467.	-12.7
SDev	.3	.2	.9	1.2	.85	2.	4.6
%RSD	.286	.218	1.53	1.89	10.7	.425	36.2
#1	87.4	89.1	60.3	63.4	-7.37	466.	-15.9
#2	87.7	88.8	59.1	65.1	-8.58	469.	-9.42
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.09	-2.29	7.21	409.	310.	77270.	56480.
SDev	.53	.48	1.73	1.	2.	85.	150.
%RSD	48.8	21.0	23.9	.319	.561	.1104	.2662
#1	1.47	-1.95	8.43	408.	309.	77210.	56370.
#2	.714	-2.63	5.99	409.	311.	77330.	56580.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	152100.	39710.	4850.	62.7	-2.06	-3.50	5980.
SDev	441.	132.	12.	.5	4.90	1.18	14.
%RSD	.2901	.3337	.250	.808	238.	33.6	.228
#1	151800.	39610.	4850.	62.4	1.41	-4.33	5980.
#2	152400.	39800.	4860.	63.1	-5.52	-2.67	5990.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-009

Operator: mw

Run Time: 08/04/03 15:19:36

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.66	-7.02	44.4	428.	3.53	18.1	686.
SDev	4.40	5.77	.1	1.	.04	.2	4.
%RSD	120.	82.2	.299	.211	1.11	.847	.564
#1	-6.77	-2.94	44.3	427.	3.51	18.2	684.
#2	-.547	-11.1	44.5	428.	3.56	18.0	689.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	91.3	75.9	181.	184.	-9.41	471.	-12.1
SDev	.4	.3	3.	5.	.13	3.	6.4
%RSD	.458	.405	1.70	2.64	1.41	.637	53.1
#1	91.0	75.6	183.	181.	-9.32	469.	-7.58
#2	91.6	76.1	179.	188.	-9.50	474.	-16.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.11	-2.31	5.54	476.	392.	86110.	64740.
SDev	2.25	.74	3.31	2.	2.	314.	581.
%RSD	202.	32.1	59.7	.448	.625	.3642	.8981
#1	-2.71	-1.79	3.20	474.	390.	85890.	64330.
#2	.476	-2.83	7.88	477.	394.	86330.	65150.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	162400.	40340.	2670.	183.	-5.90	-4.79	7660.
SDev	1088.	287.	17.	2.	2.38	.65	47.
%RSD	.6699	.7107	.628	1.21	40.3	13.5	.618
#1	161700.	40130.	2660.	182.	-4.22	-4.33	7630.
#2	163200.	40540.	2680.	185.	-7.58	-5.25	7690.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-010

Operator: mw

Run Time: 08/04/03 15:23:04

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.99	-6.01	43.0	489.	3.70	18.2	695.
SDev	4.01	2.99	.2	1.	.01	.1	5.
%RSD	44.6	49.7	.412	.199	.292	.611	.666
#1	-11.8	-3.90	43.1	489.	3.69	18.1	692.
#2	-6.16	-8.13	42.9	490.	3.71	18.2	698.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	93.7	139.	152.	153.	-9.99	476.	-9.67
SDev	.2	.	2.	2.	.08	3.	4.01
%RSD	.255	.197	1.48	1.39	.844	.613	41.5
#1	93.5	139.	153.	152.	-9.93	474.	-6.83
#2	93.9	139.	150.	155.	-10.0	478.	-12.5
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.64	-1.67	5.06	463.	460.	86160.	61450.
SDev	.17	.18	1.09	2.	4.	389.	516.
%RSD	6.37	10.7	21.6	.431	.778	.4519	.8392
#1	-2.76	-1.54	5.83	462.	458.	85890.	61090.
#2	-2.52	-1.79	4.29	464.	463.	86440.	61820.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	166100.	41690.	3700.	153.	-7.01	-4.98	7340.
SDev	1267.	344.	26.	1.	.66	1.22	46.
%RSD	.7631	.8242	.693	.436	9.37	24.6	.626
#1	165200.	41450.	3680.	152.	-6.54	-4.12	7310.
#2	167000.	41930.	3710.	153.	-7.47	-5.85	7380.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-011
 Run Time: 08/04/03 15:26:33
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.80	-7.89	47.6	331.	3.77	19.6	719.
SDev	.72	.26	.1	1.	.01	.1	5.
%RSD	12.4	3.34	.184	.251	.220	.402	.635
#1	-6.31	-7.70	47.7	330.	3.76	19.6	715.
#2	-5.29	-8.07	47.6	331.	3.77	19.7	722.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	97.1	82.2	155.	158.	-9.44	495.	-14.5
SDev	.7	.3	3.	3.	1.29	3.	2.1
%RSD	.689	.311	1.94	2.08	13.6	.622	14.8
#1	96.7	82.0	157.	156.	-8.53	493.	-16.1
#2	97.6	82.4	153.	161.	-10.4	497.	-13.0
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.13	-1.70	1.03	518.	440.	91060.	67580.
SDev	.37	.31	4.79	3.	3.	371.	519.
%RSD	17.5	18.1	464.	.584	.693	.4070	.7685
#1	-2.39	-1.49	4.42	516.	438.	90800.	67210.
#2	-1.87	-1.92	-2.36	521.	442.	91330.	67940.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	178800.	43210.	2730.	157.	-7.19	-6.27	8100.
SDev	1453.	321.	17.	1.	.06	.96	53.
%RSD	.8126	.7430	.633	.754	.887	15.4	.651
#1	177800.	42990.	2720.	156.	-7.24	-6.95	8060.
#2	179800.	43440.	2750.	158.	-7.15	-5.59	8130.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-012

Operator: mw

Run Time: 08/04/03 15:30:01

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.58	-7.93	41.7	374.	3.53	16.5	697.
SDev	4.01	1.44	.0	1.	.04	.0	5.
%RSD	52.9	18.1	.106	.261	1.06	.221	.683

#1	-10.4	-8.95	41.7	373.	3.51	16.5	694.
#2	-4.75	-6.91	41.7	374.	3.56	16.5	701.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	91.2	80.6	115.	119.	-9.82	467.	-12.6
SDev	.5	.5	2.	2.	.40	4.	6.7
%RSD	.524	.626	1.43	1.69	4.05	.781	53.2

#1	90.8	80.2	116.	118.	-9.54	464.	-7.86
#2	91.5	80.9	114.	121.	-10.1	470.	-17.3

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.02	-2.53	3.26	447.	365.	82830.	58820.
SDev	1.73	.27	3.69	3.	2.	383.	545.
%RSD	57.1	10.6	113.	.675	.667	.4623	.9264

#1	-4.25	-2.34	.656	445.	363.	82560.	58440.
#2	-1.80	-2.72	5.87	449.	366.	83100.	59210.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	152200.	40320.	2750.	118.	-7.82	-6.21	6300.
SDev	1236.	350.	22.	1.	2.30	1.08	44.
%RSD	.8121	.8670	.781	.676	29.4	17.4	.693

#1	151300.	40080.	2740.	117.	-9.44	-5.45	6270.
#2	153100.	40570.	2770.	118.	-6.19	-6.98	6330.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-015 Operator: mw
 Run Time: 08/04/03 15:33:29
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.42	-9.54	45.5	374.	3.91	19.1	755.
SDev	3.96	3.74	2.1	2.	.03	.1	6.
%RSD	42.0	39.2	4.57	.422	.689	.447	.830
#1	-12.2	-6.90	46.9	373.	3.89	19.1	751.
#2	-6.62	-12.2	44.0	375.	3.93	19.0	760.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	101.	74.6	62.3	69.1	-9.96	520.	-13.6
SDev	.	.1	4.2	1.7	1.01	4.	4.3
%RSD	.475	.086	6.82	2.49	10.2	.677	31.5
#1	100.	74.6	65.4	67.9	-9.25	518.	-10.6
#2	101.	74.7	59.3	70.3	-10.7	523.	-16.7
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.42	-2.68	4.37	506.	342.	93100.	66100.
SDev	4.69	.28	2.85	3.	3.	546.	636.
%RSD	73.1	10.4	65.4	.691	.856	.5866	.9628
#1	-9.74	-2.49	2.35	503.	340.	92710.	65650.
#2	-3.10	-2.88	6.39	508.	344.	93480.	66550.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	171400.	44380.	2800.	66.9	-9.50	-8.82	7690.
SDev	1472.	402.	26.	.3	1.17	1.70	59.
%RSD	.8592	.9069	.922	.405	12.4	19.3	.763
#1	170300.	44090.	2780.	67.1	-8.67	-10.0	7650.
#2	172400.	44660.	2820.	66.7	-10.3	-7.62	7730.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-016

Operator: mw

Run Time: 08/04/03 15:38:34

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-10.3	-10.1	37.1	335.	3.62	16.9	719.
SDev	4.6	3.4	.7	1.	.01	.0	4.
%RSD	44.5	34.0	1.79	.234	.308	.216	.616

#1	-13.5	-7.69	37.5	335.	3.61	16.9	716.
#2	-7.04	-12.6	36.6	336.	3.63	16.9	722.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	89.9	67.4	60.0	65.3	-10.3	461.	-11.7
SDev	.5	.2	2.0	2.8	.4	3.	6.6
%RSD	.545	.288	3.37	4.28	4.31	.754	56.1

#1	89.6	67.3	61.4	63.4	-10.0	459.	-7.05
#2	90.3	67.6	58.6	67.3	-10.7	464.	-16.3

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.40	-2.00	3.38	456.	310.	85490.	64050.
SDev	.80	.17	1.22	2.	2.	392.	547.
%RSD	23.5	8.67	36.1	.448	.713	.4588	.8536

#1	-2.84	-1.87	4.24	454.	309.	85210.	63660.
#2	-3.97	-2.12	2.51	457.	312.	85760.	64440.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	154100.	40710.	2480.	63.6	-10.2	-6.17	7240.
SDev	1139.	328.	17.	1.2	.8	2.72	45.
%RSD	.7391	.8064	.692	1.87	7.64	44.1	.625

#1	153300.	40480.	2470.	62.7	-9.63	-4.24	7210.
#2	154900.	40940.	2490.	64.4	-10.7	-8.09	7270.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-017

Operator: mw

Run Time: 08/04/03 15:42:03

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.86	-11.1	40.3	424.	3.85	18.3	760.
SDev	3.00	1.2	2.4	2.	.05	.2	6.
%RSD	38.1	10.8	6.04	.440	1.37	.906	.829
#1	-9.98	-10.2	42.0	423.	3.82	18.4	755.
#2	-5.74	-11.9	38.5	426.	3.89	18.2	764.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	100.	93.0	419.	423.	-9.96	643.	-10.7
SDev	1.	.4	1.	7.	.46	4.	5.1
%RSD	.713	.473	.194	1.62	4.59	.581	47.2
#1	100.0	92.7	420.	418.	-9.64	640.	-7.15
#2	101.	93.3	419.	428.	-10.3	645.	-14.3
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.02	-2.42	4.08	456.	358.	88040.	57620.
SDev	.56	.35	2.05	2.	3.	369.	491.
%RSD	11.1	14.5	50.3	.496	.771	.4196	.8527
#1	-5.42	-2.17	5.53	454.	356.	87780.	57270.
#2	-4.63	-2.66	2.63	458.	360.	88310.	57970.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	164700.	62070.	2630.	422.	-10.0	-6.93	6930.
SDev	1258.	488.	19.	4.	.2	1.32	50.
%RSD	.7638	.7855	.721	1.02	1.98	19.0	.720
#1	163800.	61720.	2620.	419.	-10.2	-5.99	6900.
#2	165600.	62410.	2650.	425.	-9.87	-7.86	6970.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-018

Operator: mw

Run Time: 08/04/03 15:45:31

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.29	-11.5	39.8	326.	3.43	16.0	646.
SDev	.29	4.1	1.4	2.	.05	.1	4.
%RSD	3.96	35.3	3.44	.555	1.41	.333	.651
#1	-7.50	-8.64	38.9	324.	3.40	15.9	643.
#2	-7.09	-14.4	40.8	327.	3.46	16.0	649.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	85.9	63.9	64.0	69.9	-10.1	471.	-3.85
SDev	.2	.2	3.3	1.5	.7	3.	8.60
%RSD	.195	.337	5.08	2.19	6.41	.674	223.
#1	85.8	63.8	66.3	68.8	-10.6	468.	2.23
#2	86.1	64.1	61.7	70.9	-9.69	473.	-9.93
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.97	-1.76	2.87	417.	328.	78600.	54130.
SDev	4.40	.53	.31	2.	3.	457.	462.
%RSD	223.	30.1	10.9	.502	.835	.5813	.8541
#1	-5.09	-1.38	2.65	416.	326.	78270.	53800.
#2	1.14	-2.13	3.10	419.	330.	78920.	54460.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	146100.	41990.	2340.	67.9	-10.1	-2.60	6500.
SDev	1132.	327.	17.	.1	2.6	.07	50.
%RSD	.7748	.7776	.746	.094	25.9	2.72	.770
#1	145300.	41760.	2330.	68.0	-8.26	-2.65	6470.
#2	146900.	42230.	2360.	67.9	-12.0	-2.55	6540.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-019

Operator: mw

Run Time: 08/04/03 15:48:59

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-14.2	-.164	46.9	859.	4.36	21.3	750.
SDev	9.3	5.722	2.4	5.	.13	.4	13.
%RSD	65.6	3490.	5.10	.626	3.01	1.75	1.72
#1	-7.59	-4.21	48.6	855.	4.27	21.0	741.
#2	-20.7	3.88	45.2	863.	4.45	21.5	759.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	93.2	126.	1730.	1690.	-7.28	481.	.257
SDev	2.1	1.	50.	25.	.57	8.	9.86
%RSD	2.23	.855	2.89	1.46	7.77	1.74	3840.
#1	91.7	125.	1690.	1670.	-7.68	476.	-6.71
#2	94.7	126.	1760.	1710.	-6.88	487.	7.23
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.85	-.738	-1.67	521.	992.	104900.	55480.
SDev	5.72	.799	.16	8.	17.	942.	998.
%RSD	97.7	108.	9.56	1.53	1.68	.8975	1.799
#1	-1.81	-1.30	-1.78	516.	980.	104300.	54770.
#2	-9.90	-.173	-1.55	527.	1000.	105600.	56180.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	182400.	34660.	3280.	1700.	-4.83	-3.82	6180.
SDev	3109.	625.	52.	33.	.72	.53	80.
%RSD	1.705	1.803	1.59	1.94	14.9	13.8	1.30
#1	180200.	34220.	3240.	1680.	-5.34	-3.45	6120.
#2	184500.	35110.	3310.	1730.	-4.32	-4.19	6230.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1150 Operator: mw
 Run Time: 08/04/03 15:56:00
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	470.	475.	266.	496.	52.8	52.2	103.
SDev	9.	11.	1.	1.	.1	.2	1.
%RSD	1.85	2.22	.199	.152	.157	.387	.572
#1	464.	468.	266.	496.	52.9	52.4	104.
#2	476.	483.	266.	495.	52.8	52.1	103.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	256.	101.	260.	259.	507.	263.	257.
SDev	1.	1.	.	1.	2.	.	4.
%RSD	.322	1.08	.106	.332	.449	.025	1.42
#1	257.	101.	261.	260.	506.	263.	259.
#2	256.	102.	260.	258.	509.	263.	254.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.	54.4	253.	252.	50.1	508.1	1016.
SDev	2.	.0	1.	.	.2	4.7	10.
%RSD	.801	.035	.230	.074	.321	.9158	.9411
#1	254.	54.4	252.	252.	50.2	504.8	1010.
#2	252.	54.4	253.	252.	50.0	511.4	1023.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	536.1	1051.	50.5	259.	474.	254.	516.
SDev	20.2	16.	.2	1.	10.	3.	1.
%RSD	3.769	1.554	.433	.257	2.10	1.01	.140
#1	521.9	1040.	50.4	260.	467.	256.	516.
#2	550.4	1063.	50.7	259.	481.	252.	515.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 15:59:36
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.36	-7.00	-.622	-.166	.364	.031	.001
SDev	.30	4.65	.972	.004	.001	.046	.131
%RSD	5.57	66.4	156.	2.46	.379	150.	13800.
#1	-5.15	-3.71	.065	-.163	.363	.063	.093
#2	-5.57	-10.3	-1.31	-.168	.365	-.002	-.092
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.101	-1.26	.470	-1.83	-6.05	-.255	1.46
SDev	.096	.15	.200	.90	2.46	.012	1.74
%RSD	94.3	12.1	42.4	49.2	40.6	4.57	119.
#1	-.034	-1.15	.612	-2.47	-4.31	-.246	2.69
#2	-.169	-1.37	.329	-1.20	-7.78	-.263	.235
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.01	.095	-.816	-.108	-3.02	23.43	-6.255
SDev	2.03	.274	.764	.066	.04	1.43	.507
%RSD	101.	288.	93.6	60.9	1.28	6.109	8.111
#1	-3.45	.289	-1.36	-.061	-2.99	22.42	-5.896
#2	-.575	-.099	-.276	-.154	-3.05	24.44	-6.613
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.97	4.623	.203	-1.07	-6.45	-.854	.770
SDev	3.15	1.203	.011	.54	3.20	.777	.328
%RSD	24.30	26.03	5.59	50.2	49.6	90.9	42.6
#1	10.74	5.474	.211	-1.45	-4.19	-1.40	1.00
#2	15.20	3.772	.195	-.688	-8.71	-.305	.539

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-020

Operator: mw

Run Time: 08/04/03 16:03:57

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.04	4.77	46.7	788.	4.62	22.0	772.
SDev	10.45	4.88	3.6	4.	.03	.2	8.
%RSD	207.	102.	7.67	.454	.703	.822	.992

#1	-12.4	8.23	49.2	786.	4.64	22.1	766.
#2	2.35	1.32	44.2	791.	4.60	21.9	777.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	94.7	119.	1370.	1340.	-4.68	488.	-.977
SDev	.2	.	2.	55.	.92	5.	7.592
%RSD	.240	.000	.170	4.13	19.5	.966	777.

#1	94.9	119.	1370.	1300.	-4.04	485.	4.39
#2	94.6	119.	1370.	1380.	-5.33	492.	-6.35

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.20	-1.00	3.45	545.	902.	102300.	50060.
SDev	9.10	1.77	.90	3.	10.	867.	650.
%RSD	217.	177.	26.1	.601	1.16	.8476	1.299

#1	-10.6	.255	4.09	542.	895.	101700.	49600.
#2	2.23	-2.26	2.82	547.	910.	102900.	50520.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	192600.	33720.	3440.	1350.	1.50	-3.13	5720.
SDev	2285.	433.	38.	36.	.23	3.54	62.
%RSD	1.186	1.284	1.11	2.68	15.1	113.	1.09

#1	191000.	33410.	3420.	1330.	1.34	-5.63	5670.
#2	194300.	34030.	3470.	1380.	1.67	-.625	5760.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-021

Operator: mw

Run Time: 08/04/03 16:07:26

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-9.71	-4.64	42.1	640.	4.11	17.2	735.
SDev	8.48	3.06	.6	3.	.05	.1	10.
%RSD	87.4	65.9	1.37	.539	1.27	.300	1.36
#1	-15.7	-2.48	42.6	638.	4.08	17.2	728.
#2	-3.71	-6.81	41.7	643.	4.15	17.3	742.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	84.5	87.2	214.	222.	-9.01	492.	-3.73
SDev	1.1	.7	3.	6.	.43	7.	8.50
%RSD	1.34	.807	1.25	2.57	4.81	1.40	228.
#1	83.7	86.7	216.	218.	-9.32	488.	2.28
#2	85.3	87.7	212.	226.	-8.70	497.	-9.73
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.53	-1.92	-1.98	445.	370.	94050.	47830.
SDev	4.66	.25	3.49	5.	5.	872.	797.
%RSD	84.2	13.1	176.	1.12	1.42	.9274	1.666
#1	-8.83	-2.09	-4.45	442.	367.	93430.	47260.
#2	-2.24	-1.74	.481	449.	374.	94670.	48390.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	156900.	34500.	2590.	219.	-6.33	-4.93	5480.
SDev	2229.	540.	34.	3.	.79	.27	65.
%RSD	1.421	1.564	1.31	1.33	12.4	5.57	1.18
#1	155400.	34120.	2560.	217.	-6.89	-5.12	5430.
#2	158500.	34890.	2610.	222.	-5.77	-4.74	5530.

Analysis Report

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Method: 6010B Sample Name: 166599-022

Operator: mw

Run Time: 08/04/03 16:10:55

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.95	-4.53	50.4	791.	6.30	21.7	784.
SDev	8.94	.45	3.1	4.	.04	.1	6.
%RSD	129.	10.00	6.06	.448	.640	.349	.748
#1	-13.3	-4.85	52.6	788.	6.27	21.7	780.
#2	-.632	-4.21	48.2	793.	6.32	21.8	788.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	111.	110.	96.9	114.	-8.28	634.	-14.9
SDev	.	.	2.5	3.	.55	5.	4.9
%RSD	.312	.113	2.58	2.36	6.69	.822	32.8
#1	111.	110.	98.7	112.	-7.88	631.	-11.5
#2	111.	110.	95.2	116.	-8.67	638.	-18.4
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.14	-3.35	5.12	544.	355.	128500.	47760.
SDev	1.52	.24	1.46	3.	3.	718.	439.
%RSD	21.2	7.18	28.4	.597	.835	.5587	.9196
#1	-8.21	-3.18	4.09	542.	353.	128000.	47450.
#2	-6.07	-3.52	6.15	546.	357.	129000.	48070.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	197600.	46030.	2910.	108.	-5.33	-9.74	7320.
SDev	1676.	391.	24.	1.	3.28	.62	61.
%RSD	.8484	.8496	.812	.884	61.5	6.38	.833
#1	196400.	45760.	2890.	108.	-7.65	-9.30	7270.
#2	198700.	46310.	2930.	109.	-3.01	-10.2	7360.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-023

Operator: mw

Run Time: 08/04/03 16:14:23

Comment: 83339,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.54	-4.80	43.0	708.	5.43	20.9	783.
SDev	3.06	3.82	3.4	2.	.03	.1	5.
%RSD	40.7	79.6	7.92	.240	.481	.290	.686

#1	-9.70	-2.10	45.4	706.	5.41	21.0	780.
#2	-5.37	-7.50	40.6	709.	5.45	20.9	787.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	117.	86.6	188.	200.	-8.34	527.	-5.30
SDev	1.	.0	3.	5.	.63	3.	7.60
%RSD	.887	.023	1.41	2.67	7.50	.618	143.

#1	116.	86.6	190.	196.	-7.90	524.	.076
#2	118.	86.6	186.	204.	-8.79	529.	-10.7

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.767	-2.17	3.65	523.	396.	126100.	43170.
SDev	3.363	.45	2.92	2.	3.	708.	378.
%RSD	438.	20.6	80.0	.439	.773	.5615	.8747

#1	-3.14	-1.85	1.59	522.	394.	125600.	42910.
#2	1.61	-2.49	5.72	525.	399.	126600.	43440.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	193500.	40730.	3220.	196.	-5.71	-2.28	6890.
SDev	1542.	357.	25.	3.	1.52	.29	45.
%RSD	.7968	.8775	.777	1.36	26.7	12.8	.653

#1	192400.	40480.	3200.	194.	-4.63	-2.07	6860.
#2	194600.	40980.	3240.	198.	-6.79	-2.48	6920.

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page 1

Method: 6010B Sample Name: 166624-020

Operator: mw

Run Time: 08/04/03 16:17:52

Comment: 83387,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-7.56	-7.93	31.5	550.	3.53	14.1	593.
SDev	6.28	.30	.2	2.	.01	.1	4.
%RSD	83.0	3.73	.561	.418	.332	.720	.645

#1	-12.0	-7.72	31.4	548.	3.52	14.2	591.
#2	-3.12	-8.14	31.7	552.	3.53	14.1	596.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	73.6	76.8	357.	359.	-9.49	390.	-8.90
SDev	.1	.1	1.	9.	.10	2.	1.98
%RSD	.114	.147	.177	2.38	1.02	.497	22.2

#1	73.5	76.7	357.	353.	-9.42	389.	-7.50
#2	73.7	76.9	356.	365.	-9.55	392.	-10.3

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.282	-1.84	.713	372.	502.	75820.	43300.
SDev	5.094	.40	3.63	2.	4.	482.	352.
%RSD	1810.	21.7	509.	.480	.742	.6355	.8122

#1	-3.88	-1.56	-1.85	371.	499.	75480.	43060.
#2	3.32	-2.13	3.28	374.	504.	76160.	43550.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	128000.	30000.	2340.	358.	-7.81	-3.16	5600.
SDev	952.	241.	17.	5.	1.90	2.74	39.
%RSD	.7439	.8037	.730	1.53	24.3	86.7	.700

#1	127400.	29830.	2330.	354.	-9.15	-5.09	5570.
#2	128700.	30170.	2360.	362.	-6.47	-1.22	5630.

Analysis Report

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page 1

Method: 6010B Sample Name: 166624-022

Operator: mw

Run Time: 08/04/03 16:21:20

Comment: 83387,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.94	-7.58	40.5	370.	3.71	14.2	537.
SDev	4.16	4.33	1.0	1.	.00	.0	4.
%RSD	59.9	57.2	2.40	.404	.037	.096	.735
#1	-9.88	-4.51	39.9	369.	3.71	14.2	535.
#2	-4.00	-10.6	41.2	371.	3.71	14.1	540.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	77.8	56.4	172.	177.	-9.46	421.	-6.64
SDev	.8	.2	3.	3.	.40	3.	5.41
%RSD	.999	.336	1.46	1.66	4.20	.728	81.5
#1	77.2	56.3	174.	175.	-9.74	418.	-2.82
#2	78.3	56.5	171.	179.	-9.18	423.	-10.5
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.67	-1.96	1.00	362.	360.	78170.	44410.
SDev	.23	.16	1.33	2.	3.	471.	452.
%RSD	6.38	8.33	133.	.539	.835	.6027	1.017
#1	-3.83	-1.85	.062	360.	358.	77830.	44090.
#2	-3.50	-2.08	1.94	363.	362.	78500.	44720.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	128800.	33470.	2200.	176.	-7.37	-4.66	6080.
SDev	1142.	335.	19.	1.	1.50	1.65	46.
%RSD	.8865	1.001	.856	.642	20.4	35.4	.753
#1	128000.	33230.	2190.	175.	-6.30	-3.49	6050.
#2	129600.	33710.	2210.	176.	-8.43	-5.82	6120.

Analysis Report

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page 1

Method: 6010B Sample Name: 166624-037

Operator: mw

Run Time: 08/04/03 16:24:49

Comment: 83387,1

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.68	-10.3	33.9	731.	4.26	21.0	681.
SDev	2.66	1.9	1.3	3.	.07	.0	4.
%RSD	46.8	18.7	3.79	.382	1.68	.217	.626

#1	-7.56	-8.96	33.0	729.	4.21	21.0	678.
#2	-3.80	-11.7	34.8	733.	4.31	20.9	684.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	86.3	101.	371.	369.	-8.92	459.	-6.45
SDev	.7	1.	1.	8.	.70	2.	1.56
%RSD	.803	.562	.314	2.03	7.83	.521	24.2

#1	85.8	101.	371.	364.	-8.43	457.	-7.55
#2	86.8	102.	370.	374.	-9.42	461.	-5.34

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-5.40	-3.08	.922	556.	384.	79470.	49130.
SDev	1.93	.22	.204	3.	3.	424.	432.
%RSD	35.7	7.19	22.1	.583	.746	.5340	.8796

#1	-6.76	-2.92	1.07	554.	382.	79170.	48830.
#2	-4.03	-3.23	.777	559.	386.	79770.	49440.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	193300.	31870.	2630.	370.	-8.78	-5.75	7000.
SDev	1524.	262.	21.	5.	.40	1.81	51.
%RSD	.7886	.8237	.780	1.25	4.58	31.4	.723

#1	192200.	31680.	2610.	366.	-8.49	-7.03	6960.
#2	194400.	32050.	2640.	373.	-9.06	-4.47	7030.

Analysis Report

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page 1

Method: 6010B Sample Name: 166599-001

Operator: mw

Run Time: 08/04/03 16:29:09

Comment: 83339,10

Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-15.6	-11.2	8.20	166.	1.34	5.47	124.
SDev	1.3	1.4	.62	.	.01	.02	1.
%RSD	8.10	12.2	7.55	.135	.667	.388	.423
#1	-14.7	-10.2	8.64	166.	1.34	5.45	124.
#2	-16.5	-12.2	7.76	166.	1.35	5.48	124.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.1	146.	354.	350.	-10.4	138.	-3.10
SDev	.2	.	.	1.	.4	.	.21
%RSD	.713	.080	.007	.377	3.60	.015	6.64
#1	25.3	146.	354.	349.	-10.1	138.	-3.25
#2	25.0	146.	354.	351.	-10.6	138.	-2.96
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.62	-.078	1.85	83.1	675.	15990.	7682.
SDev	.57	.010	1.21	.4	1.	44.	31.
%RSD	21.5	12.3	65.5	.515	.126	.2733	.3989
#1	-3.02	-.071	2.70	83.4	676.	16020.	7704.
#2	-2.22	-.085	.990	82.8	675.	15960.	7660.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	43880.	6217.	870.	351.	-12.7	-2.78	854.
SDev	125.	21.	2.	1.	1.3	.45	3.
%RSD	.2859	.3405	.276	.249	10.5	16.0	.366
#1	43970.	6232.	871.	351.	-11.7	-3.10	856.
#2	43800.	6202.	868.	352.	-13.6	-2.47	851.

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1151
 Run Time: 08/04/03 16:33:28
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	731.	741.	394.	739.	76.6	77.1	150.
SDev	12.	9.	1.	3.	.3	.3	1.
%RSD	1.68	1.19	.205	.373	.379	.331	.502
#1	722.	735.	395.	741.	76.8	77.2	150.
#2	740.	748.	394.	737.	76.4	76.9	149.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	373.	147.	374.	368.	732.	386.	387.
SDev	1.	1.	1.	18.	21.	2.	1.
%RSD	.378	.540	.334	4.83	2.93	.437	.386
#1	374.	147.	373.	355.	717.	387.	386.
#2	372.	146.	375.	380.	748.	385.	388.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	383.	71.4	377.	366.	75.0	723.7	1432.
SDev	3.	.1	2.	1.	.6	11.4	12.
%RSD	.726	.094	.584	.404	.828	1.577	.8524
#1	381.	71.5	379.	367.	75.4	731.8	1441.
#2	385.	71.4	376.	365.	74.5	715.6	1424.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	745.7	1504.	71.9	370.	738.	384.	743.
SDev	17.5	14.	.6	12.	10.	2.	2.
%RSD	2.342	.9266	.880	3.32	1.36	.611	.300
#1	758.0	1513.	72.3	361.	731.	382.	745.
#2	733.3	1494.	71.4	379.	745.	386.	742.

Analysis Report

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page 1

Method: 6010B Sample Name: ccb
 Run Time: 08/04/03 16:38:06
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-12.8	-6.62	.911	-.146	.879	.097	-.147
SDev	3.0	2.53	.134	.002	.009	.113	.000
%RSD	23.5	38.2	14.7	1.59	.987	116.	.182
#1	-10.7	-4.83	.816	-.145	.872	.177	-.148
#2	-14.9	-8.41	1.01	-.148	.885	.018	-.147
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.203	-1.54	-.624	-1.55	-6.62	-.303	-.937
SDev	.000	.02	.973	.60	1.71	.242	8.532
%RSD	.000	1.36	156.	38.9	25.8	79.8	911.
#1	-.203	-1.53	-1.31	-1.97	-5.42	-.132	5.10
#2	-.203	-1.56	.065	-1.12	-7.83	-.474	-6.97
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.272	-.432	2.20	-.178	-3.23	27.28	-7.116
SDev	.143	.106	2.74	.000	.04	.12	.305
%RSD	52.4	24.5	124.	.001	1.16	.4554	4.285
#1	-.373	-.357	4.14	-.178	-3.20	27.36	-6.900
#2	-.171	-.507	.265	-.178	-3.25	27.19	-7.331
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.13	4.988	.214	-1.24	-8.68	-.494	.400
SDev	.00	1.032	.044	.73	2.69	2.749	.238
%RSD	.0244	20.69	20.4	58.5	31.0	557.	59.4
#1	16.13	4.258	.245	-1.75	-6.78	1.45	.568
#2	16.13	5.717	.183	-.726	-10.6	-2.44	.232

Analysis Report

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page 1

Method: 6010B Sample Name: 03ws1089
 Run Time: 08/04/03 16:41:48
 Comment: 83339,1
 Mode: CONC Corr. Factor: 1

Operator: mw

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	421.	441.	502.	444.	430.	870.	413.
SDev	16.	12.	3.	1.	1.	1.	1.
%RSD	3.74	2.63	.510	.179	.119	.128	.159
#1	410.	433.	500.	445.	431.	871.	413.
#2	432.	449.	503.	444.	430.	869.	412.
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	414.	459.	813.	945.	419.	904.	489.
SDev	1.	2.	4.	23.	14.	2.	12.
%RSD	.274	.382	.474	2.46	3.32	.226	2.38
#1	415.	461.	816.	929.	409.	906.	481.
#2	413.	458.	810.	962.	429.	903.	497.
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	472.	994.	439.	426.	953.	420700.	352400.
SDev	14.	8.	2.	1.	1.	633.	413.
%RSD	3.07	.822	.411	.329	.147	.1503	.1172
#1	462.	1000.	438.	427.	954.	421200.	352700.
#2	482.	988.	440.	425.	952.	420300.	352100.
Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	154800.	450500.	409.	901.	435.	478.	1770.
SDev	159.	569.	.	14.	13.	14.	.
%RSD	.1028	.1262	.051	1.58	2.99	2.84	.011
#1	154900.	450900.	409.	891.	425.	468.	1770.
#2	154700.	450100.	409.	911.	444.	487.	1770.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83293
 Date: 07/31/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166531-021	15.4830	23.1170	21.0809	73	27
166531-022	15.4434	23.0246	20.9579	73	27
166531-023	15.1940	21.5519	20.9328	90	10
166531-024	15.5055	22.5668	21.1872	80	20
166531-025	15.4498	21.6857	21.1067	91	9
166531-026	15.3279	22.5628	22.1781	95	5
166531-027	15.9780	23.1828	22.0816	85	15
166531-028	15.5077	21.7608	21.5240	96	4
166531-029	11.2163	17.3306	16.3185	83	17
166531-030	15.1555	22.0264	21.1022	87	13
166531-031	15.7924	22.3828	21.8722	92	8
166531-032	15.4265	22.4756	21.6518	88	12
166531-033	15.8316	23.0300	22.1751	88	12
166599-001	15.0713	21.7673	21.2712	93	7
166599-002	15.3401	21.8477	21.2653	91	9
166599-003	16.0291	22.9320	22.5005	94	6
166599-004	15.4267	22.4388	22.0625	95	5
166599-005	15.5166	21.3771	20.7512	89	11
166599-006	15.4621	21.9431	21.4570	92	8
166599-007	16.0073	22.8718	22.1962	90	10
QC220736	15.0642	21.5799	21.0925	93	7
of 166599-001			RPD:	0.1%	1.0%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83293
 Date Started: 30-JUL-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166531-021		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-022		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-023		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-024		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-025		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-026		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-027		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-028		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-029		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-030		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-031		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-032		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166531-033		Foster Wheeler Env	Soil	MOISTURE	11-AUG-2003
166599-001		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-002		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-003		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-004		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-005		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-006		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-007		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
QC220736	SDUP	of 166599-001	Soil	MOISTURE	

7/30/03

83293

Sample	Dish #	Tare Wt.	Ini. Wt.	Fin. Wt.	Comments
Blank	T	15.1899	-	15.1898	
166531 - 21	4	15.4830	23.1170	21.0829	Homogenized
- 22	21X	15.4434	23.0246	20.9579	cored
- 23	71	15.1940	21.5519	20.9328	
- 24	24	15.5055	22.5668	21.1872	
- 25	32	15.4498	21.6857	21.1067	
- 26	F	15.3279	22.5628	22.1781	
- 27	3D	15.9780	23.1828	22.0816	
- 28	14	15.5077	21.7608	21.5240	
- 29	1V	11.2143	17.3306	16.3185	
- 30	DF	15.1555	22.0264	21.1022	
- 31	17	15.7924	22.3828	21.8722	
- 32	101	15.4265	22.4756	21.6518	
- 33	24D	15.8316	23.0300	22.1751	
166599 - 1	103	15.0713	21.7673	21.2712	
- 1 DUP	10A	15.0642	21.5799	21.0925	
- 2	15L	15.3401	21.8477	21.2653	
- 3	12D	16.0291	22.9320	22.5005	
- 4	I2	15.4267	22.4388	22.0625	
- 5	141	15.5166	21.3771	20.7512	
- 6	C	15.4621	21.9431	21.4570	
- 7	7D	16.0073	22.8718	22.1962	

OVEN TEMP: 104°C

TIME IN: 3:30 P.M.

TIME OUT: 9:00 A.M.

ON: 7/30/03

Continued on Page

Read and Understood By

R. Manning

Signed

7/30/03 388

Date

L. D. Sch...

Signed

7/31/03

Date

Percent Moisture Summary Report

Batch: 83313
 Date: 07/31/03
 Method: CLP SOW 390
 Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166599-008	15.4222	21.5693	21.5356	99	1
166599-009	15.5711	21.2162	21.1343	99	1
166599-010	15.3327	23.7421	23.6979	99	1
166599-011	15.2561	21.9244	21.8338	99	1
166599-012	15.4558	21.2621	21.2264	99	1
166599-013	15.6744	22.4176	22.3229	99	1
166599-015	11.0852	18.1582	18.1148	99	1
166599-016	15.1583	21.1835	21.1240	99	1
166599-017	15.1944	22.2619	22.1751	99	1
166599-018	15.5531	21.5235	21.4713	99	1
166599-019	15.3258	21.3511	21.2150	98	2
166599-020	11.5247	18.2072	18.0178	97	3
166599-021	15.3645	21.0588	20.9323	98	2
166599-022	15.1686	23.1874	22.9559	97	3
166599-023	15.7800	22.1087	21.9031	97	3
166599-024	15.5655	21.0746	20.9564	98	2
166599-025	15.8184	21.7345	21.5860	97	3
166599-026	15.4660	21.6334	21.5281	98	2
166599-027	15.4226	22.1276	22.0028	98	2
166599-028	10.9874	18.1081	17.9613	98	2
QC220829	15.5009	22.2023	22.1699	100	0
of 166599-008			RPD:	0.1%	12.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83313
Date Started: 31-JUL-2003
Batched by : Kirsten Dutcher

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166599-008		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-009		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-010		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-011		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-012		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-013		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-015		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-016		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-017		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-018		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-019		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-020		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-021		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-022		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-023		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-024		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-025		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-026		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-027		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-028		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
QC220829	SDUP	of 166599-008	Soil	MOISTURE	

7/30/03

83313

Sample	Dish#	tare wt	init wt	fin wt	Comment
Blank	7CD	15.3556	-	15.3567	
1166599-8	99	15.4222	21.5693	21.5356	
-8 Dup	B	15.5009	22.2023	22.1699	
-9	5X	15.5711	21.2162	21.1343	
-10	7B	15.3327	23.7421	23.6979	
-11	3A	15.2561	21.9244	21.8338	
-12	238	15.4258	21.2621	21.2264	
-13	33	15.6744	22.4176	22.3229	
-15	JP	11.0892	18.1582	18.1148	
-16	SEJ	15.1583	21.1835	21.1246	
-17	FA	15.1944	22.2619	22.1751	
-18	21	15.5531	21.5235	21.4713	
-19	1/2	15.3258	21.3511	21.2150	
-20	1	11.5247	18.2072	18.0178	
-21	9A	15.3645	21.0588	20.9323	
-22	973	15.1686	23.1874	22.9559	
-23	X11	15.7800	22.1087	21.9031	
-24	29	15.5655	21.0746	20.9564	
-25	LOU	15.8184	21.7345	21.5860	
-26	19	15.4600	21.6334	21.5281	
-27	40	15.4226	22.1276	22.0028	
-28	JED	10.9874	18.1081	17.9613	

Oven temp: 104°C

time in: 4:35pm

time out: 9:15 A.M. on: 7/31/03

Continued on Page

Read and Understood By

D. Sch

Signed

7/30/03

Date

391

R. Munn

Signed

7/31/03

Date

Percent Moisture Summary Report

Batch: 83314
 Date: 07/31/03
 Method: CLP SOW 390
 Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166599-029	15.4025	21.3046	21.1374	97	3
166599-030	15.3308	21.8645	21.5854	96	4
166599-031	11.2222	17.3951	17.2021	97	3
166599-032	10.9695	16.2552	16.0929	97	3
166599-033	15.3745	22.1808	21.9951	97	3
166611-001	10.9853	16.3199	16.3081	100	0
166611-002	11.9979	18.6344	18.6149	100	0
166611-003	15.8256	21.1251	21.0825	99	1
166611-004	15.2742	22.2754	22.1292	98	2
QC220830	15.8195	22.0669	21.9199	98	2
of 166611-004			RPD:	0.3%	11.9%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83314
 Date Started: 31-JUL-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166599-029		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-030		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-031		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-032		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166599-033		Treadwell & Rollo	Soil	MOISTURE	04-AUG-2003
166611-001		Innovative Technic	Soil	MOISTURE	31-JUL-2003
166611-002		Innovative Technic	Soil	MOISTURE	31-JUL-2003
166611-003		Innovative Technic	Soil	MOISTURE	31-JUL-2003
166611-004		Innovative Technic	Soil	MOISTURE	31-JUL-2003
QC220830	SDUP	of 166611-004	Soil	MOISTURE	

7/30/03

83314

Sample	Dish#	tare wt	init wt	fin wt.	comment
Blank	18	11.0581	—	11.0587	
1166599-29	5A	15.4023	21.3046	21.1374	
-30	3B1	15.3308	21.8645	21.5854	
-31	XII	11.2222	17.3951	17.2021	
-32	2AX	10.9695	16.2552	16.0929	
-33	4C	15.3745	22.1808	21.9951	
1166611-1	10G	10.9853	16.3199	16.3081	
-2	12A	11.9979	18.6344	18.4149	
-3	13D	15.8256	21.1251	21.0825	
-4	113A	15.2742	22.2754	22.1242	
-4 Dup	10X	15.8195	22.0669	21.9199	

oven temp: 104°C

time in: 5:20 pm

time out 9:25 A.M. on: 7/31/03

Continued on Page

Read and Understood By

L. Dutcher

Signed

7/30/03⁹⁴

Date

R. Merrill

Signed

7/31/03

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166624

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio - Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
CHPSB17[2]	166624-001	CHPSB20[2]	166624-024
CHPSB17[3]	166624-002	CHPSB20[3]	166624-025
CHPSB15[1]	166624-003	CHPSB27[1]	166624-026
CHPSB15[2]	166624-004	CHPSB27[2] [MSD]	166624-027
CHPSB15[3]	166624-005	CHPSB27[3]	166624-028
CHPSB07[1]	166624-006	DUP073003A	166624-029
CHPSB07[2]	166624-007	CHPSB11[1]	166624-030
DUP072903D	166624-008	CHPSB11[2]	166624-031
CHPSB07[3]	166624-009	CHPSB11[3] [MSD]	166624-032
CHPSB07[1] RB[2]	166624-010	CHPSB13[1]	166624-033
CHPSB08[1]	166624-011	CHPSB13[2]	166624-034
CHPSB08[2]	166624-012	CHPSB13[3]	166624-035
CHPSB14[1]	166624-013	CHPSB12[1]	166624-036
CHPSB14[2]	166624-014	CHPSB12[2]	166624-037
CHPSB14[3]	166624-015	CHPSB12[3]	166624-038
CHPSB05[1]	166624-016	CHPSB03[0.3]	166624-039
CHPSB06[1]	166624-017	CHPSB03[1]	166624-040
CHPSB06[2]	166624-018	CHPSB02[0.3]	166624-041
CHPSB06[3]	166624-019	CHPSB02[1]	166624-042
CHPSB19[2]	166624-020	CHPSB02[2] [MSD]	166624-043
CHPSB19[3]	166624-021	CHPSB01[0.3]	166624-044
CHPSB19[4]	166624-022	CHPSB01[1]	166624-045
CHPSB20[1]	166624-023	CHPSB01[2]	166624-046

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/11/03

Signature: _____

Project Manager

Date: _____

8/11/03

Laboratory Number: **166624**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/30/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and forty-five soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample CHPSB08 [1] (166624-011) for aluminum, iron, and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for all spiked samples were outside acceptance limits. Additionally, the matrix spike recoveries of sample CHPSB27 [2] [MSD] (166624-027) for barium and zinc were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The serial dilution sample analyzed on 8/5/03 at 16:21 was outside acceptance limits for arsenic. No other analytical problems were encountered.

Chain of Custody

166624

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☒ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 2 of 4

Site Name: Presidio Fring Range
 Job Number: 2893.07
 Project Manager/Contact: Dorinda Symon
 Samplers: DS/CP
 Recorder (Signature Required): [Signature]

Turnaround Time
20

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested	Hold	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice					Other
CHPSB14 C37	7/29/03	1520		X											Smetals per 2893.07 project set up also 19 metals
CHPSB05 C17	7/29/03	1535		X											
CHPSB06 C17	7/29/03	1537		X											
CHPSB06 C37	7/29/03	1540		X											
CHPSB06 C37	7/29/03	1543		X											
CHPSB19 C27	7/29/03	1630		X											
CHPSB19 C37	7/29/03	1640		X											
CHPSB19 C47	7/29/03	1645		X											
CHPSB20 C37	7/29/03	0820		X											
CHPSB20 C37	7/29/03	0823		X											
CHPSB20 C37	7/29/03	0827		X											
CHPSB27 C17	7/29/03	0850		X											
CHPSB27 C27	7/29/03	0858		X											
CHPSB27 C37	7/29/03	0855		X											
Relinquished by: (Signature)	Date	Time													
Relinquished by: (Signature)	Date	Time													
Relinquished by: (Signature)	Date	Time													
Method of Shipment: <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS <input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name)															

COC Number: 001263

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

Sent to Laboratory (Name):
 Laboratory Comments/Notes:

rec'd intact in 10

160624

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 3 of 4

Site Name: Presidio Firing Ranges
 Job Number: 2893.07

Project Manager/Contact: Donada Shipman
 Samplers: REE-1015
 Recorder (Signature Required): Rhonda Lechert

Turnaround Time
581

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested					Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice		Other	Silica gel clean-up	Hold			
CHPSB13003A	7/30/03	0915		X												19 metals -	
CHPSB11C1	7/30/03	0917		X												per 2893.07 project	
CHPSB11C2	7/30/03	0922		X												Setup	
CHPSB11C3	7/30/03	0925		X													
CHPSB13C1	7/30/03	0940		X												5 metals per	
CHPSB13C2	7/30/03	0945		X												2893.07 project	
CHPSB13C3	7/30/03	0950		X												Setup	
CHPSB12C1	7/30/03	1000		X													
CHPSB12C2	7/30/03	1003		X													
CHPSB12C3	7/30/03	1006		X													
CHPSB13C1	7/30/03	1010		X													
CHPSB13C2	7/30/03	1012		X													
CHPSB13C3	7/30/03	1015		X													
CHPSB13C4	7/30/03	1018		X													
Relinquished by: (Signature)	Date	Time															
Relinquished by: (Signature)	Date	Time															
Relinquished by: (Signature)	Date	Time															
Sent to Laboratory (Name):			C+T			Date			Time			Date			Time		
Laboratory Comments/Notes:																	

COC Number: 001265

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

Rec'd instant - incl ee

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

Login#: 166624 Date Received: 7-30-03 Number of Coolers: 2
Client: Treadwell & Rello Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-30-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: Blue in one wet in the other Temperature: 5.7 4.2

B. Login Phase

Date Logged In: 7-30-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Describe type of packing in cooler: In ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB07[1]RB[2]	Sampled:	07/29/03
Matrix:	Water	Received:	07/30/03
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03
Batch#:	83380		

Type: SAMPLE Lab ID: 166624-010

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC221090

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83380
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03

Type: BS Lab ID: QC221091

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	537.0	107	80-120
Barium	2,000	1,970	99	80-120
Copper	250.0	243.0	97	80-120
Lead	100.0	97.80	98	80-120
Zinc	500.0	483.0	97	80-120

Type: BSD Lab ID: QC221092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	568.0	114	80-120	6	20
Barium	2,000	1,950	98	80-120	1	20
Copper	250.0	241.0	96	80-120	1	20
Lead	100.0	96.40	96	80-120	1	20
Zinc	500.0	480.0	96	80-120	1	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB07[1]RB[2]	Batch#:	83380
MSS Lab ID:	166624-010	Sampled:	07/29/03
Matrix:	Water	Received:	07/30/03
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03

Type: MS Lab ID: QC221093

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	516.0	103	75-125
Barium	<0.4200	2,000	1,910	96	75-125
Copper	7.400	250.0	241.0	93	75-125
Lead	<1.300	100.0	96.10	96	75-125
Zinc	5.050	500.0	474.0	94	75-125

Type: MSD Lab ID: QC221094

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	502.0	100	75-125	3	20
Barium	2,000	1,850	93	75-125	3	20
Copper	250.0	233.0	90	75-125	3	20
Lead	100.0	93.50	94	75-125	3	20
Zinc	500.0	463.0	92	75-125	2	20

Method: 6010B Standard: blank

Run Time: 08/04/03 06:50:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	-.000	-.092	.001	.000
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.07	16.5	18.7	8110.	.020	33.5	24.9
#1	-.001	.000	-.000	.000	-.092	.001	.000
#2	-.001	.001	-.000	-.000	-.092	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	-.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	12.6	10.3	55.7	2280.	153.	8370.	12.9
#1	-.000	-.003	.001	.001	.000	.000	-.002
#2	-.000	-.002	.000	-.001	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	-.000	-.001	.000	.005	.0263	-.0062
SDev	.001	.000	.000	.000	.000	.0002	.0000
%RSD	52.2	1040.	10.4	97.9	.084	.7541	.3132
#1	.002	.000	-.001	.000	.005	.0262	-.0062
#2	.001	-.000	-.001	.000	.005	.0265	-.0062
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.059			
SDev	.0001	.0000	.000	.000			
%RSD	16.43	56.63	19.1	.349			
#1	-.0007	.0000	.000	.059			
#2	-.0006	.0001	.000	.059			

Method: 6010B Standard: cst hi

Run Time: 08/04/03 06:55:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.151	.087	.035	5.43	.647	.210	.053
SDev	.007	.003	.000	.00	.001	.001	.000
%RSD	4.35	3.54	.014	.048	.208	.606	.213
#1	.146	.085	.035	5.43	.646	.209	.053
#2	.155	.089	.035	5.43	.648	.211	.053
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.141	.132	.157	.152	.271	.362	.036
SDev	.000	.001	.001	.001	.000	.000	.000
%RSD	.104	.420	.626	.815	.049	.100	.034
#1	.141	.132	.157	.153	.271	.362	.036
#2	.141	.132	.156	.151	.271	.362	.036
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.044	.052	.025	.210	.031	.0548	.0670
SDev	.001	.000	.000	.000	.000	.0002	.0001
%RSD	1.99	.043	.362	.011	.093	.3834	.1279
#1	.044	.052	.025	.210	.031	.0550	.0670
#2	.045	.052	.025	.210	.031	.0547	.0671
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0266	.0397	.230	2.02			
SDev	.0000	.0001	.000	.00			
%RSD	.1409	.1224	.134	.068			
#1	.0267	.0397	.230	2.02			
#2	.0266	.0397	.230	2.02			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6575.28	4.71201	08/04/03 06:55:50
Sb206A	206.832	Multiple	Standards	11305.7	-5.16161	08/04/03 06:55:50
As1890	189.042	Multiple	Standards	14066.3	3.95774	08/04/03 06:55:50
Ba4934	493.409	Multiple	Standards	184.120	.001006	08/04/03 06:55:50
Be3130	313.042	Multiple	Standards	130.744	12.0423	08/04/03 06:55:50
Cd2265	226.502	Multiple	Standards	477.528	-.471547	08/04/03 06:55:50
Cr2677	267.716	Multiple	Standards	3808.32	-.687286	08/04/03 06:55:50
Co2286	228.616	Multiple	Standards	3539.63	1.48445	08/04/03 06:55:50
Cu3247	324.754	Multiple	Standards	1487.47	3.57020	08/04/03 06:55:50
Pb2203	220.351	Multiple	Standards	3205.10	-1.85416	08/04/03 06:55:50
Pb220A	220.352	Multiple	Standards	3258.94	-.137305	08/04/03 06:55:50
Mo2020	202.030	Multiple	Standards	3688.05	-.489180	08/04/03 06:55:50
Ni2316	231.604	Multiple	Standards	1379.10	.007541	08/04/03 06:55:50
Se1960	196.021	Multiple	Standards	13137.2	26.8501	08/04/03 06:55:50
Se196A	196.022	Multiple	Standards	11595.6	-16.0011	08/04/03 06:55:50
Ag3280	328.068	Multiple	Standards	1904.75	.050741	08/04/03 06:55:50
Tl1908	190.864	Multiple	Standards	19746.6	15.6180	08/04/03 06:55:50
V_2924	292.402	Multiple	Standards	2384.85	-.493561	08/04/03 06:55:50
Zn2138	213.856	Multiple	Standards	3981.63	-19.4240	08/04/03 06:55:50
Al3082	308.215	Multiple	Standards	35526.8	-935.411	08/04/03 06:55:50
Ca3179	317.933	Multiple	Standards	27324.1	168.545	08/04/03 06:55:50
Fe2714	271.441	Multiple	Standards	38243.2	24.3598	08/04/03 06:55:50
Mg2790	279.079	Multiple	Standards	50420.6	-2.67705	08/04/03 06:55:50
Mn2576	257.610	Multiple	Standards	435.853	-.155027	08/04/03 06:55:50
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Ti3349	334.941	Multiple	Standards	510.969	-30.2761	08/04/03 06:55:50

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459002

Run Name :
Filename : tr212301

Injected : 04-AUG-2003 07:05
Caltpe :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	997.0000	ug/L	0		5	
Antimony	1000.000	1010.000	ug/L	1		5	
Arsenic	500.0000	494.0000	ug/L	-1		5	
Barium	1000.000	994.0000	ug/L	-1		5	
Beryllium	100.0000	102.0000	ug/L	2		5	
Cadmium	100.0000	102.0000	ug/L	2		5	
Calcium	2000.000	2042.000	ug/L	2		5	
Chromium	200.0000	203.0000	ug/L	2		5	
Cobalt	500.0000	508.0000	ug/L	2		5	
Copper	200.0000	200.0000	ug/L	0		5	
Iron	1000.000	1013.000	ug/L	1		5	
Lead	500.0000	505.0000	ug/L	1		5	
Magnesium	2000.000	2028.000	ug/L	1		5	
Manganese	100.0000	101.0000	ug/L	1		5	
Molybdenum	1000.000	1010.000	ug/L	1		5	
Nickel	500.0000	507.0000	ug/L	1		5	
Selenium	500.0000	507.0000	ug/L	1		5	
Silver	100.0000	100.0000	ug/L	0		5	
Thallium	500.0000	501.0000	ug/L	0		5	
Titanium	1000.000	1000.000	ug/L	0		5	
Vanadium	500.0000	504.0000	ug/L	1		5	
Zinc	100.0000	102.0000	ug/L	2		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459003

Run Name :
Filename : tr212303

Injected : 04-AUG-2003 07:28
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	481.6000	ug/L	-4	10	
Antimony	500.0000	512.0000	ug/L	2	10	
Arsenic	250.0000	257.0000	ug/L	3	10	
Barium	500.0000	480.0000	ug/L	-4	10	
Beryllium	50.00000	51.80000	ug/L	4	10	
Cadmium	50.00000	49.50000	ug/L	-1	10	
Calcium	1000.000	1011.000	ug/L	1	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	251.0000	ug/L	0	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	497.9000	ug/L	0	10	
Lead	250.0000	248.0000	ug/L	-1	10	
Magnesium	1000.000	1031.000	ug/L	3	10	
Manganese	50.00000	49.70000	ug/L	-1	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	254.0000	ug/L	2	10	
Selenium	250.0000	245.0000	ug/L	-2	10	
Silver	50.00000	48.80000	ug/L	-2	10	
Thallium	250.0000	241.0000	ug/L	-4	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	51.00000	ug/L	2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459005

Run Name :
Filename : tr212305

Injected : 04-AUG-2003 07:56
Caltpe :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	90.73000	ug/L	-9	50	
Antimony	60.00000	73.70000	ug/L	23	50	
Arsenic	5.000000	3.070000	ug/L	-39	50	
Barium	10.00000	9.440000	ug/L	-6	50	
Beryllium	2.000000	1.710000	ug/L	-15	50	
Cadmium	5.000000	4.690000	ug/L	-6	50	
Chromium	10.00000	9.310000	ug/L	-7	50	
Cobalt	20.00000	19.40000	ug/L	-3	50	
Copper	10.00000	9.790000	ug/L	-2	50	
Iron	100.0000	95.50000	ug/L	-5	50	
Lead	3.000000	1.770000	ug/L	-41	50	
Manganese	10.00000	9.650000	ug/L	-4	50	
Molybdenum	20.00000	19.00000	ug/L	-5	50	
Nickel	20.00000	19.90000	ug/L	-1	50	
Selenium	5.000000	4.440000	ug/L	-11	50	
Silver	5.000000	4.480000	ug/L	-10	50	
Thallium	5.000000	3.170000	ug/L	-37	50	
Vanadium	10.00000	9.570000	ug/L	-4	50	
Zinc	20.00000	21.40000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459015

Run Name :
Filename : tr212315

Injected : 04-AUG-2003 08:44
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	475.4000	ug/L	-5		10	
Antimony		500.0000	488.0000	ug/L	-2		10	
Arsenic		250.0000	253.0000	ug/L	1		10	
Barium		500.0000	466.0000	ug/L	-7		10	
Beryllium		50.00000	51.70000	ug/L	3		10	
Cadmium		50.00000	48.90000	ug/L	-2		10	
Calcium		1000.000	1013.000	ug/L	1		10	
Chromium		100.0000	98.50000	ug/L	-2		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	98.20000	ug/L	-2		10	
Iron		500.0000	526.5000	ug/L	5		10	
Lead		250.0000	243.0000	ug/L	-3		10	
Magnesium		1000.000	1015.000	ug/L	2		10	
Manganese		50.00000	48.80000	ug/L	-2		10	
Molybdenum		500.0000	473.0000	ug/L	-5		10	
Nickel		250.0000	251.0000	ug/L	0		10	
Selenium		250.0000	245.0000	ug/L	-2		10	
Silver		50.00000	47.80000	ug/L	-4		10	
Thallium		250.0000	241.0000	ug/L	-4		10	
Titanium		500.0000	492.0000	ug/L	-2		10	
Vanadium		250.0000	242.0000	ug/L	-3		10	
Zinc		50.00000	50.70000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459027

Run Name :
Filename : tr212327

Injected : 04-AUG-2003 09:39
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.5000	ug/L	-5	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	467.0000	ug/L	-7	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	986.9000	ug/L	-1	10	
Chromium		100.0000	97.60000	ug/L	-2	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	97.10000	ug/L	-3	10	
Iron		500.0000	504.6000	ug/L	1	10	
Lead		250.0000	244.0000	ug/L	-2	10	
Magnesium		1000.000	1004.000	ug/L	0	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459039

Run Name :
Filename : tr212339

Injected : 04-AUG-2003 10:40
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	731.6000	ug/L	-2	10	
Antimony		750.0000	767.0000	ug/L	2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	72.60000	ug/L	-3	10	
Calcium		1500.000	1475.000	ug/L	-2	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	731.6000	ug/L	-2	10	
Lead		375.0000	359.0000	ug/L	-4	10	
Magnesium		1500.000	1503.000	ug/L	0	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	721.0000	ug/L	-4	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	360.0000	ug/L	-4	10	
Silver		75.00000	70.30000	ug/L	-6	10	
Thallium		375.0000	358.0000	ug/L	-5	10	
Titanium		750.0000	747.0000	ug/L	0	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	73.60000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459049

Run Name :
Filename : tr212349

Injected : 04-AUG-2003 12:24
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.4000	ug/L	-2	10	
Antimony		500.0000	532.0000	ug/L	6	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	50.80000	ug/L	2	10	
Cadmium		50.00000	48.80000	ug/L	-2	10	
Calcium		1000.000	989.9000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	492.2000	ug/L	-2	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	49.40000	ug/L	-1	10	
Molybdenum		500.0000	498.0000	ug/L	0	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459059

Run Name :
Filename : tr212359

Injected : 04-AUG-2003 13:20
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	724.7000	ug/L	-3	10	
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	76.80000	ug/L	2	10	
Cadmium		75.00000	76.00000	ug/L	1	10	
Calcium		1500.000	1455.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	735.3000	ug/L	-2	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1527.000	ug/L	2	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	384.0000	ug/L	2	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	71.00000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	750.0000	ug/L	0	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	74.50000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73311459071

Run Name :
Filename : tr212371

Injected : 04-AUG-2003 14:09
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	499.8000	ug/L	0	10	
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	51.30000	ug/L	3	10	
Calcium		1000.000	959.4000	ug/L	-4	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	531.5000	ug/L	6	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1020.000	ug/L	2	10	
Manganese		50.00000	48.50000	ug/L	-3	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	48.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459084

Run Name :
Filename : tr212384

Injected : 04-AUG-2003 15:02
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	766.7000	ug/L	2	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.40000	ug/L	3	10	
Cadmium		75.00000	73.80000	ug/L	-2	10	
Calcium		1500.000	1497.000	ug/L	0	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	791.5000	ug/L	6	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1524.000	ug/L	2	10	
Manganese		75.00000	75.00000	ug/L	0	10	
Molybdenum		750.0000	741.0000	ug/L	-1	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	74.30000	ug/L	-1	10	
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	73.60000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459096

Run Name :
Filename : tr212396

Injected : 04-AUG-2003 15:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	508.1000	ug/L	2	10	
Antimony		500.0000	474.0000	ug/L	-5	10	
Arsenic		250.0000	266.0000	ug/L	6	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	52.80000	ug/L	6	10	
Cadmium		50.00000	52.20000	ug/L	4	10	
Calcium		1000.000	1016.000	ug/L	2	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	256.0000	ug/L	2	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	536.1000	ug/L	7	10	
Lead		250.0000	259.0000	ug/L	4	10	
Magnesium		1000.000	1051.000	ug/L	5	10	
Manganese		50.00000	50.50000	ug/L	1	10	
Molybdenum		500.0000	507.0000	ug/L	1	10	
Nickel		250.0000	263.0000	ug/L	5	10	
Selenium		250.0000	254.0000	ug/L	2	10	
Silver		50.00000	54.40000	ug/L	9	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.10000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459106

Run Name :
Filename : tr212406

Injected : 04-AUG-2003 16:33
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.7000	ug/L	-4	10	
Antimony		750.0000	738.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	76.60000	ug/L	2	10	
Cadmium		75.00000	77.10000	ug/L	3	10	
Calcium		1500.000	1432.000	ug/L	-5	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	745.7000	ug/L	-1	10	
Lead		375.0000	370.0000	ug/L	-1	10	
Magnesium		1500.000	1504.000	ug/L	0	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	732.0000	ug/L	-2	10	
Nickel		375.0000	386.0000	ug/L	3	10	
Selenium		375.0000	384.0000	ug/L	2	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	377.0000	ug/L	1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459119

Run Name :
Filename : tr212420

Injected : 04-AUG-2003 17:37
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	530.0000	ug/L	6	10	
Antimony		500.0000	527.0000	ug/L	5	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	52.20000	ug/L	4	10	
Cadmium		50.00000	49.50000	ug/L	-1	10	
Calcium		1000.000	1000.000	ug/L	0	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	98.90000	ug/L	-1	10	
Iron		500.0000	504.2000	ug/L	1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1024.000	ug/L	2	10	
Manganese		50.00000	50.10000	ug/L	0	10	
Molybdenum		500.0000	487.0000	ug/L	-3	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	54.10000	ug/L	8	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	510.0000	ug/L	2	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	47.60000	ug/L	-5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459004
Filename: tr212304

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 04-AUG-2003 07:40

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[18.900]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1320]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.1540]		5.000000	ug/L	<	RL
Calcium	[6.5010]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.7990]		10.00000	ug/L	<	RL
Copper	[0.0770]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.0140]		10.00000	ug/L	<	RL
Molybdenum	[2.6200]		20.00000	ug/L	<	RL
Nickel	[0.1110]		20.00000	ug/L	<	RL
Selenium	[1.4100]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[4.5700]		5.000000	ug/L	<	RL
Titanium	[2.5300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.3800]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459016
Filename: tr212316

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 08:48

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[0.6890]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2450]	10.00000	ug/L	<RL	
Beryllium	[0.1140]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[13.080]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.7260]	10.00000	ug/L	<RL	
Copper	[0.4270]	10.00000	ug/L	<RL	
Iron	[16.100]	100.0000	ug/L	<RL	
Lead	[0.6970]	3.000000	ug/L	<RL	
Magnesium	[4.5340]	500.0000	ug/L	<RL	
Manganese	[0.2210]	10.00000	ug/L	<RL	
Molybdenum	[4.5600]	20.00000	ug/L	<RL	
Nickel	[0.0790]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[3.7700]	5.000000	ug/L	<RL	
Titanium	[3.3300]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459028
Filename: tr212328

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 09:44

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[2.0000]		60.00000	ug/L	<RL	
Arsenic	[1.0100]		5.000000	ug/L	<RL	
Barium	[0.2220]		10.00000	ug/L	<RL	
Beryllium	[0.4260]		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[3.3630]		500.0000	ug/L	<RL	
Chromium	[0.1850]		10.00000	ug/L	<RL	
Cobalt	[1.1600]		10.00000	ug/L	<RL	
Copper	[0.2440]		10.00000	ug/L	<RL	
Iron	[19.780]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	[2.4620]		500.0000	ug/L	<RL	
Manganese	[0.1600]		10.00000	ug/L	<RL	
Molybdenum	[4.6400]		20.00000	ug/L	<RL	
Nickel	[0.2360]		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[2.8600]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	[1.2600]		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459040
Filename: tr212340

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 10:48

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.300]	60.00000	ug/L	<RL	
Arsenic	[0.1150]	5.000000	ug/L	<RL	
Barium	[0.3940]	10.00000	ug/L	<RL	
Beryllium	[0.5610]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0450]	10.00000	ug/L	<RL	
Cobalt	[1.3000]	10.00000	ug/L	<RL	
Copper	[0.3000]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.3700]	3.000000	ug/L	<RL	
Magnesium	[3.4980]	500.0000	ug/L	<RL	
Manganese	[0.0870]	10.00000	ug/L	<RL	
Molybdenum	[9.1800]	20.00000	ug/L	<RL	
Nickel	[0.2130]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.1700]	5.000000	ug/L	<RL	
Titanium	[3.0800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.0300]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459050
Filename: tr212350

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[14.300]		60.00000	ug/L	<	RL
Arsenic	[1.6900]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.0320]		2.000000	ug/L	<	RL
Cadmium	[0.1000]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.0320]		10.00000	ug/L	<	RL
Copper	[0.2060]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[1.5240]		500.0000	ug/L	<	RL
Manganese	[0.0500]		10.00000	ug/L	<	RL
Molybdenum	ND		20.00000	ug/L	<	RL
Nickel	[0.0990]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.0740]		5.000000	ug/L	<	RL
Thallium	[2.0800]		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459060
Filename: tr212360

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 13:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[8.0260]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[0.3800]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.6650]	2.000000	ug/L	<RL		
Cadmium	[0.1090]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[2.3680]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[2.9320]	500.0000	ug/L	<RL		
Manganese	[0.0310]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.4870]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.9460]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73311459072
Filename: tr212372

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 14:13

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[22.060]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.7600]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.1300]	2.000000	ug/L	<RL	
Cadmium	[0.1780]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.2680]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[18.400]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[6.8040]	500.0000	ug/L	<RL	
Manganese	[0.3690]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.0030]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.0300]	5.000000	ug/L	<RL	
Titanium	[0.6900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459085
Filename: tr212385

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:09

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[22.680]	100.0000	ug/L	<RL	
Antimony	[30.300]	60.00000	ug/L	<RL	
Arsenic	[3.1000]	5.000000	ug/L	<RL	
Barium	[0.0370]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1690]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1670]	10.00000	ug/L	<RL	
Cobalt	[0.1940]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[18.030]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[5.8400]	500.0000	ug/L	<RL	
Manganese	[0.3290]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.2890]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1770]	5.000000	ug/L	<RL	
Thallium	[0.5390]	5.000000	ug/L	<RL	
Titanium	[0.5030]	10.00000	ug/L	<RL	
Vanadium	[0.2170]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459097
Filename: tr212397

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:59

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[23.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.3640]	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0010]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[12.970]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.6230]	500.0000	ug/L	<RL	
Manganese	[0.2030]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0950]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.7700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459107
Filename: tr212407

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 16:38

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[27.280]	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[0.9110]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.8790]	2.000000	ug/L	<	RL
Cadmium	[0.0970]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[16.130]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[4.9880]	500.0000	ug/L	<	RL
Manganese	[0.2140]	10.00000	ug/L	<	RL
Molybdenum	ND	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.2000]	5.000000	ug/L	<	RL
Titanium	[0.4000]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459120
Filename: tr212421

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 17:49

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[63.900]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.1100]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.4800]	2.000000	ug/L	<RL	
Cadmium	[0.0960]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1220]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[3.1130]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[3.4740]	500.0000	ug/L	<RL	
Manganese	[0.0490]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.5300]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459006

Run Name :
Filename : tr212306

Injected : 04-AUG-2003 08:00
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	514600.0	ug/L	3			
Antimony	500.0000	513.0000	ug/L	3	20		
Arsenic	500.0000	542.0000	ug/L	8	20		
Barium	500.0000	481.0000	ug/L	-4	20		
Beryllium	500.0000	512.0000	ug/L	2	20		
Cadmium	1000.000	971.0000	ug/L	-3	20		
Calcium	500000.0	464500.0	ug/L	-7			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	480.0000	ug/L	-4	20		
Copper	500.0000	505.0000	ug/L	1	20		
Iron	200000.0	185600.0	ug/L	-7			
Lead	1000.000	994.0000	ug/L	-1	20		
Magnesium	500000.0	519400.0	ug/L	4			
Manganese	500.0000	484.0000	ug/L	-3	20		
Molybdenum	500.0000	461.0000	ug/L	-8	20		
Nickel	1000.000	1030.000	ug/L	3	20		
Selenium	500.0000	521.0000	ug/L	4	20		
Silver	1000.000	1020.000	ug/L	2	20		
Thallium	500.0000	467.0000	ug/L	-7	20		
Titanium	20000.00	1990.000	ug/L	-90			
Vanadium	500.0000	487.0000	ug/L	-3	20		
Zinc	1000.000	1020.000	ug/L	2	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459074

Run Name :
Filename : tr212374

Injected : 04-AUG-2003 14:21
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	431200.0	ug/L	-14			
Antimony	500.0000	439.0000	ug/L	-12	20		
Arsenic	500.0000	504.0000	ug/L	1	20		
Barium	500.0000	445.0000	ug/L	-11	20		
Beryllium	500.0000	430.0000	ug/L	-14	20		
Cadmium	1000.000	871.0000	ug/L	-13	20		
Calcium	500000.0	353200.0	ug/L	-29			
Chromium	500.0000	414.0000	ug/L	-17	20		
Cobalt	500.0000	413.0000	ug/L	-17	20		
Copper	500.0000	454.0000	ug/L	-9	20		
Iron	200000.0	159800.0	ug/L	-20			
Lead	1000.000	903.0000	ug/L	-10	20		
Magnesium	500000.0	456200.0	ug/L	-9			
Manganese	500.0000	406.0000	ug/L	-19	20		
Molybdenum	500.0000	421.0000	ug/L	-16	20		
Nickel	1000.000	909.0000	ug/L	-9	20		
Selenium	500.0000	479.0000	ug/L	-4	20		
Silver	1000.000	963.0000	ug/L	-4	20		
Thallium	500.0000	432.0000	ug/L	-14	20		
Titanium	20000.00	1780.000	ug/L	-91			
Vanadium	500.0000	423.0000	ug/L	-15	20		
Zinc	1000.000	924.0000	ug/L	-8	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459108

Run Name :
Filename : tr212408

Injected : 04-AUG-2003 16:41
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	420700.0	ug/L	-16			
Antimony	500.0000	435.0000	ug/L	-13	20		
Arsenic	500.0000	502.0000	ug/L	0	20		
Barium	500.0000	444.0000	ug/L	-11	20		
Beryllium	500.0000	430.0000	ug/L	-14	20		
Cadmium	1000.000	870.0000	ug/L	-13	20		
Calcium	500000.0	352400.0	ug/L	-30			
Chromium	500.0000	413.0000	ug/L	-17	20		
Cobalt	500.0000	414.0000	ug/L	-17	20		
Copper	500.0000	459.0000	ug/L	-8	20		
Iron	200000.0	154800.0	ug/L	-23			
Lead	1000.000	901.0000	ug/L	-10	20		
Magnesium	500000.0	450500.0	ug/L	-10			
Manganese	500.0000	409.0000	ug/L	-18	20		
Molybdenum	500.0000	419.0000	ug/L	-16	20		
Nickel	1000.000	904.0000	ug/L	-10	20		
Selenium	500.0000	478.0000	ug/L	-4	20		
Silver	1000.000	994.0000	ug/L	-1	20		
Thallium	500.0000	439.0000	ug/L	-12	20		
Titanium	20000.00	1770.000	ug/L	-91			
Vanadium	500.0000	426.0000	ug/L	-15	20		
Zinc	1000.000	953.0000	ug/L	-5	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459121

Run Name :
Filename : tr212422

Injected : 04-AUG-2003 17:53
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	433000.0	ug/L	-13			
Antimony	500.0000	502.0000	ug/L	0	20		
Arsenic	500.0000	485.0000	ug/L	-3	20		
Barium	500.0000	449.0000	ug/L	-10	20		
Beryllium	500.0000	424.0000	ug/L	-15	20		
Cadmium	1000.000	823.0000	ug/L	-18	20		
Calcium	500000.0	371700.0	ug/L	-26			
Chromium	500.0000	412.0000	ug/L	-18	20		
Cobalt	500.0000	409.0000	ug/L	-18	20		
Copper	500.0000	475.0000	ug/L	-5	20		
Iron	200000.0	160800.0	ug/L	-20			
Lead	1000.000	889.0000	ug/L	-11	20		
Magnesium	500000.0	455900.0	ug/L	-9			
Manganese	500.0000	422.0000	ug/L	-16	20		
Molybdenum	500.0000	414.0000	ug/L	-17	20		
Nickel	1000.000	890.0000	ug/L	-11	20		
Selenium	500.0000	462.0000	ug/L	-8	20		
Silver	1000.000	1030.000	ug/L	3	20		
Thallium	500.0000	415.0000	ug/L	-17	20		
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	430.0000	ug/L	-14	20		
Zinc	1000.000	928.0000	ug/L	-7	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73311459

Instrument: MET07

TJA Trace ICP

Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr212300	X				04-AUG-2003 06:59	1.0	1.0				1	
002	tr212301	CS				04-AUG-2003 07:05	1.0	1.0				1	
003	tr212303	ICV				04-AUG-2003 07:28	1.0	1.0				2	
004	tr212304	ICB				04-AUG-2003 07:40	1.0	1.0				3	
005	tr212305	CRI				04-AUG-2003 07:56	1.0	1.0				4	
006	tr212306	ICSAB				04-AUG-2003 08:00	1.0	1.0				4	4:MG=519400
007	tr212307	BLANK				04-AUG-2003 08:04	1.0	50.0	1				
008	tr212308	BS				04-AUG-2003 08:09	1.0	50.0					
009	tr212309	BSD				04-AUG-2003 08:12	1.0	50.0					
010	tr212310	MSS				04-AUG-2003 08:18	1.0	40.81633	2				2:FE=270700
011	tr212311	SER				04-AUG-2003 08:22	5.0	40.81633	1			1	
012	tr212312	MS				04-AUG-2003 08:26	1.0	45.87156				1	2:FE=264300
013	tr212313	MSD				04-AUG-2003 08:30	1.0	36.76471				2	2:FE=331500
014	tr212314	SAMPLE				04-AUG-2003 08:35	1.0	46.94836					2:FE=224400
015	tr212315	CCV				04-AUG-2003 08:44	1.0	1.0				5	
016	tr212316	CCB				04-AUG-2003 08:48	1.0	1.0					2:FE=274600
017	tr212317	SAMPLE				04-AUG-2003 08:52	1.0	38.91051					2:FE=252700
018	tr212318	SAMPLE				04-AUG-2003 08:56	1.0	45.04505					2:FE=245100
019	tr212319	SAMPLE				04-AUG-2003 09:00	1.0	44.64286					3:FE=399000
020	tr212320	SAMPLE				04-AUG-2003 09:04	1.0	47.61905					2:FE=357600
021	tr212321	SAMPLE				04-AUG-2003 09:08	1.0	43.10345					2:FE=394900
022	tr212322	SAMPLE				04-AUG-2003 09:12	1.0	36.63004					3:FE=590900
023	tr212323	SAMPLE				04-AUG-2003 09:16	1.0	46.08295					3:FE=471500
024	tr212324	SAMPLE				04-AUG-2003 09:20	1.0	43.10345					3:FE=500600
025	tr212325	SAMPLE				04-AUG-2003 09:23	1.0	42.01681					3:FE=379400
026	tr212326	SAMPLE				04-AUG-2003 09:27	1.0	47.39336					
027	tr212327	CCV				04-AUG-2003 09:39	1.0	1.0				5	
028	tr212328	CCB				04-AUG-2003 09:44	1.0	1.0					2:FE=279400
029	tr212329	PDS				04-AUG-2003 09:48	1.0	40.81633				6	3:FE=496500
030	tr212330	SAMPLE				04-AUG-2003 09:52	1.0	43.47826					2:FE=284200
031	tr212331	SAMPLE				04-AUG-2003 09:56	1.0	47.84689					2:FE=396200
032	tr212332	SAMPLE				04-AUG-2003 10:00	1.0	46.94836					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: McMullen

Date: 8/14/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
033	tr212333	SAMPLE	166674-017	83386	Soil	04-AUG-2003 10:04	1.0	45.04505						2:FE=436000
034	tr212334	SAMPLE	166674-018	83386	Soil	04-AUG-2003 10:08	1.0	47.39336						2:FE=374300
035	tr212335	SAMPLE	166674-019	83386	Soil	04-AUG-2003 10:12	1.0	37.03704						3:FE=512100
036	tr212336	BLANK	QC221112	83387	Soil	04-AUG-2003 10:20	1.0	50.0						
037	tr212337	BS	QC221113	83387	Soil	04-AUG-2003 10:24	1.0	50.0						
038	tr212338	BSD	QC221114	83387	Soil	04-AUG-2003 10:32	1.0	50.0						
039	tr212339	CCV				04-AUG-2003 10:40	1.0	1.0					8	
040	tr212340	CCB				04-AUG-2003 10:48	1.0	1.0						
041	tr212341	MSS	166624-011	83387	Soil	04-AUG-2003 10:53	1.0	46.08295	2					2:FE=159400
042	tr212342	SER	QC221117	83387	Soil	04-AUG-2003 10:58	5.0	46.08295	1					
043	tr212343	SER	QC221117	83387	Soil	04-AUG-2003 11:02	5.0	46.08295						
044	tr212344	MS	QC221115	83387	Soil	04-AUG-2003 11:09	1.0	48.54369						2:FE=168500
045	tr212345	MSD	QC221116	83387	Soil	04-AUG-2003 11:12	1.0	42.73504						2:FE=198200
046	tr212346	SAMPLE	166663-001	83387	Soil	04-AUG-2003 11:16	1.0	43.29004						
047	tr212347	SAMPLE	166663-002	83387	Soil	04-AUG-2003 11:19	1.0	46.94836						
048	tr212348	SAMPLE	166663-003	83387	Soil	04-AUG-2003 11:23	1.0	42.37288						1:AL=114400
049	tr212349	CCV				04-AUG-2003 12:24	1.0	1.0					5	
050	tr212350	CCB				04-AUG-2003 12:34	1.0	1.0						
051	tr212351	MSS	166624-011	83387	Soil	04-AUG-2003 12:40	10.0	46.08295	1					
052	tr212352	SER	QC221117	83387	Soil	04-AUG-2003 12:44	50.0	46.08295						
053	tr212353	SAMPLE	166663-004	83387	Soil	04-AUG-2003 12:47	10.0	47.39336						
054	tr212354	SAMPLE	166663-005	83387	Soil	04-AUG-2003 12:51	10.0	48.30918						
055	tr212355	SAMPLE	166663-006	83387	Soil	04-AUG-2003 12:54	10.0	43.66812						
056	tr212356	BLANK	QC221090	83380	Water	04-AUG-2003 13:01	1.0	1.0						
057	tr212357	BS	QC221091	83380	Water	04-AUG-2003 13:07	1.0	1.0						
058	tr212358	BSD	QC221092	83380	Water	04-AUG-2003 13:17	1.0	1.0						
059	tr212359	CCV				04-AUG-2003 13:20	1.0	1.0					8	
060	tr212360	CCB				04-AUG-2003 13:26	1.0	1.0						
061	tr212361	MSS	166624-010	83380	Water	04-AUG-2003 13:30	1.0	1.0						
062	tr212362	MS	QC221093	83380	Water	04-AUG-2003 13:34	1.0	1.0						
063	tr212363	MSD	QC221094	83380	Water	04-AUG-2003 13:38	1.0	1.0						
064	tr212364	SAMPLE	166674-001	83380	Water	04-AUG-2003 13:41	1.0	1.0						

Std# used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SSS286 7=03SSS287 8=03WS1151

Analyst: Wash Date: 8/24/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212365	SAMPLE	166674-020	83380	Water	04-AUG-2003 13:45	1.0	1.0					
066	tr212366	BLANK	QC220915	83339	Soil	04-AUG-2003 13:48	1.0	50.0	2				
067	tr212367	BS	QC220916	83339	Soil	04-AUG-2003 13:52	1.0	50.0					
068	tr212368	BSD	QC220917	83339	Soil	04-AUG-2003 13:55	1.0	50.0					
069	tr212369	MSS	166599-003	83339	Soil	04-AUG-2003 13:59	1.0	47.84689	2				2:FE=244600
070	tr212370	MS	QC220918	83339	Soil	04-AUG-2003 14:02	1.0	48.30918					2:FE=245700
071	tr212371	CCV				04-AUG-2003 14:09	1.0	1.0				5	
072	tr212372	CCB				04-AUG-2003 14:13	1.0	1.0					
073	tr212373	BLANK	QC220915	83339	Soil	04-AUG-2003 14:17	1.0	50.0					
074	tr212374	ICSAB				04-AUG-2003 14:21	1.0	1.0				4	4:MG=456200
075	tr212375	SER	QC220920	83339	Soil	04-AUG-2003 14:25	5.0	47.84689					
076	tr212376	MSD	QC220919	83339	Soil	04-AUG-2003 14:32	1.0	49.01961					2:FE=247800
077	tr212377	MSS	166599-004	83339	Soil	04-AUG-2003 14:35	1.0	49.01961	2				2:FE=240600
078	tr212378	MS	QC220921	83339	Soil	04-AUG-2003 14:39	1.0	43.29004					3:FE=285800
079	tr212379	MSD	QC220922	83339	Soil	04-AUG-2003 14:42	1.0	45.87156		1			2:FE=270900
080	tr212380	SAMPLE	166599-001	83339	Soil	04-AUG-2003 14:46	1.0	48.54369	1				3:FE=374500
081	tr212381	SAMPLE	166599-002	83339	Soil	04-AUG-2003 14:49	1.0	48.78049					2:FE=237300
082	tr212382	SAMPLE	166599-005	83339	Soil	04-AUG-2003 14:53	1.0	44.24779					3:FE=434300
083	tr212383	SAMPLE	166599-006	83339	Soil	04-AUG-2003 14:56	1.0	45.87156					4:FE=409500
084	tr212384	CCV				04-AUG-2003 15:02	1.0	1.0				8	
085	tr212385	CCB				04-AUG-2003 15:09	1.0	1.0					
086	tr212386	SAMPLE	166599-008	83339	Soil	04-AUG-2003 15:16	1.0	48.54369					1:FE=152100
087	tr212387	SAMPLE	166599-009	83339	Soil	04-AUG-2003 15:19	1.0	47.84689					1:FE=162400
088	tr212388	SAMPLE	166599-010	83339	Soil	04-AUG-2003 15:23	1.0	46.08295					1:FE=166100
089	tr212389	SAMPLE	166599-011	83339	Soil	04-AUG-2003 15:26	1.0	46.51163					1:FE=178800
090	tr212390	SAMPLE	166599-012	83339	Soil	04-AUG-2003 15:30	1.0	43.85965					1:FE=152200
091	tr212391	SAMPLE	166599-015	83339	Soil	04-AUG-2003 15:33	1.0	40.65041					1:FE=171400
092	tr212392	SAMPLE	166599-016	83339	Soil	04-AUG-2003 15:38	1.0	49.01961					1:FE=154100
093	tr212393	SAMPLE	166599-017	83339	Soil	04-AUG-2003 15:42	1.0	49.50495					1:FE=164700
094	tr212394	SAMPLE	166599-018	83339	Soil	04-AUG-2003 15:45	1.0	49.26108					1:FE=146100
095	tr212395	SAMPLE	166599-019	83339	Soil	04-AUG-2003 15:48	1.0	46.51163					2:FE=182400
096	tr212396	CCV				04-AUG-2003 15:56	1.0	1.0				5	

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: NEB/UA Date: 8/4/03
Page 3 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

Begun: 04-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr212397	CCB				04-AUG-2003 15:59	1.0	1.0					
098	tr212398	SAMPLE	166599-020	83339	Soil	04-AUG-2003 16:03	1.0	49.26108					2:FE=192600
099	tr212399	SAMPLE	166599-021	83339	Soil	04-AUG-2003 16:07	1.0	46.72897					1:FE=156900
100	tr212400	SAMPLE	166599-022	83339	Soil	04-AUG-2003 16:10	1.0	41.8410					2:FE=197600
101	tr212401	SAMPLE	166599-023	83339	Soil	04-AUG-2003 16:14	1.0	46.51163					2:FE=193500
102	tr212402	SAMPLE	166624-020	83387	Soil	04-AUG-2003 16:17	1.0	48.07692	1				1:FE=128000
103	tr212403	SAMPLE	166624-022	83387	Soil	04-AUG-2003 16:21	1.0	43.29004	1				1:FE=128800
104	tr212404	SAMPLE	166624-037	83387	Soil	04-AUG-2003 16:24	1.0	44.84305	1				1:FE=193300
105	tr212405	SAMPLE	166599-001	83339	Soil	04-AUG-2003 16:29	10.0	48.54369					
106	tr212406	CCV				04-AUG-2003 16:33	1.0	1.0				8	
107	tr212407	CCB				04-AUG-2003 16:38	1.0	1.0					
108	tr212408	ICSAB				04-AUG-2003 16:41	1.0	1.0				4	4:MG=450500
109	tr212409	SAMPLE	166624-038	83387	Soil	04-AUG-2003 16:45	1.0	41.49378	1				1:FE=396500
110	tr212410	SAMPLE	166624-041	83387	Soil	04-AUG-2003 16:49	1.0	47.84689	1				1:FE=167200
111	tr212411	SAMPLE	166642-013	83380	Water	04-AUG-2003 16:52	1.0	1.0					
112	tr212412	SAMPLE	166642-013	83380	Water	04-AUG-2003 16:56	1.0	1.0					
113	tr212413	SAMPLE	166642-014	83380	Water	04-AUG-2003 17:00	1.0	1.0					
114	tr212414	SAMPLE	166624-020	83387	Soil	04-AUG-2003 17:03	10.0	48.07692					
115	tr212415	SAMPLE	166624-022	83387	Soil	04-AUG-2003 17:07	10.0	43.29004					
116	tr212417	SAMPLE	166624-037	83387	Soil	04-AUG-2003 17:17	10.0	44.84305					
117	tr212418	SAMPLE	166624-038	83387	Soil	04-AUG-2003 17:21	10.0	41.49378					
118	tr212419	SAMPLE	166624-041	83387	Soil	04-AUG-2003 17:24	10.0	47.84689					
119	tr212420	CCV				04-AUG-2003 17:37	1.0	1.0				5	
120	tr212421	CCB				04-AUG-2003 17:49	1.0	1.0					
121	tr212422	ICSAB				04-AUG-2003 17:53	1.0	1.0				4	4:MG=455900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Meichen Date: 8/1/03

REPORTING SUMMARY FOR 166624 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166624-010	MET07	08/04/03 13:30	1.0	+	+	+	+	+	
QC221090	MET07	08/04/03 13:01	1.0	+	+	+	+	+	
QC221091	MET07	08/04/03 13:07	1.0	+	+	+	+	+	
QC221092	MET07	08/04/03 13:17	1.0	+	+	+	+	+	
QC221093	MET07	08/04/03 13:34	1.0	+	+	+	+	+	
QC221094	MET07	08/04/03 13:38	1.0	+	+	+	+	+	

Batch Number : 83380
 Date Extracted: 01-AUG-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166609-001		Sherwin Williams	Water	50	ml	50	1						ZN
166618-004		SOMA Environmental Engineering	Water	50	ml	50	1						PB
166618-005		SOMA Environmental Engineering	Water	50	ml	50	1						PB
166624-010		Treadwell & Rollo	Water	50	ml	50	1						BA, CU, PB, SB, ZN mss
166625-002		LFR Levine Fricke	Water	50	ml	50	1						AG, AS, CD, CR, (more)
166628-002		Wil Chee Planning	Water	50	ml	50	1						CD, PB
166628-003		Wil Chee Planning	Water	50	ml	50	1						CD, PB
166628-005		Wil Chee Planning	Water	50	ml	50	1						CD, PB
166628-006		Wil Chee Planning	Water	50	ml	50	1						CD, PB
166642-013		Mactec, Inc.	Water	50	ml	50	1						T26/ICP
166642-014		Mactec, Inc.	Water	50	ml	50	1						BA, CU, PB, SB, ZN
166645-006		Treadwell & Rollo	Water	50	ml	50	1						ZN
166659-001		LA Chemical	Water	50	ml	50	1						PB
166674-001		Presidio Trust	Water	50	ml	50	1						PB
166674-020		Presidio Trust	Water	50	ml	50	1						PB
QC221090	BLANK		Water	50	ml	50	1						ICAP
QC221091	BS		Water	50	ml	50	1		.5	.5			ICAP
QC221092	BSD		Water	50	ml	50	1		.5	.5			ICAP
QC221093	MS	of 166624-010	Water	50	ml	50	1		.5	.5			ICAP
QC221094	MSD	of 166624-010	Water	50	ml	50	1		.5	.5			ICAP
QC221095	SER	of 166624-010	Water	50	ml	50	1		.5	.5			ICAP

Prep Chemist: Patricia Vergara Reviewed By: mw Date: 8/4/03

Relinquished By: Patricia Vergara Received By: mw Date: 8/4/03

08/01/03		Batch# 83380		ICAPM 3010	
SAMPLE ID	Initial (ml)	Final vol (ml)	FILTERED YES/NO	Comments	
C 1166609-001	50.0	50.0	YES	SPIKES	
A 1166618-004	↓	↓	NO	✓ 0355177 (0.5 mL)	
↓ 005				✓ 0355178 ↓	
↓ 1166624-010 MSS					
E 1166625-002					
D 1166628-002					
A ↓ 003					
D ↓ 005					
A ↓ 006					
G 1166642-013					
↓ 014					
A 1166645-006	↓	↓	YES	Reagents	
↓ 1166659-001				HNO3 STIRBATE # 405050	
1166663-001				1:1 HCL STIRBATE # 412028/0723g	
002				(MS/MSD 1166624-010 11/2/01/03)	
003					
004					
005					
006					
MS-OC 221090					
↓ BS 221091					
↓ MSD 221092					
↓ MS-6666-010					
↓ MS-6666-010					
A 1166674-001	↓	↓	↓		
↓ 020					

Continued on Page

Read and Understood By

Patricia Vergara
Signed

08/01/03
Date

50

MM
Signed

8/4/03
Date

Method Detection Limit Study for EPA 6010B / 2001
Curtis & Tompkins-Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L u

Method Detection Limit Study for EPA 6010B / 200.7 ✓ 6/25/03
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Barium	5.0000000	4.5700000	4.5600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L	Eu

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segment	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB08[1]	Batch#:	83387
Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	4,500	47	10.00
Antimony	ND	2.8	1.000
Arsenic	2.0	0.24	1.000
Barium	33	0.47	1.000
Beryllium	0.15	0.094	1.000
Cadmium	0.81	0.24	1.000
Chromium	29	0.47	1.000
Cobalt	4.2	0.94	1.000
Copper	5.1	0.47	1.000
Iron	7,400	47	10.00
Lead	61	0.14	1.000
Magnesium	1,700	24	1.000
Manganese	120	0.47	1.000
Nickel	22	0.94	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	20	0.47	1.000
Zinc	28	0.94	1.000

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB19[2]	Batch#:	83387
Lab ID:	166624-020	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 2%

Analyte	Result	RL	Diln Fac
Aluminum	3,700	4.9	1.000
Antimony	ND	2.9	1.000
Arsenic	1.5	0.25	1.000
Barium	27	0.49	1.000
Beryllium	0.17	0.098	1.000
Cadmium	0.69	0.25	1.000
Chromium	29	0.49	1.000
Cobalt	3.6	0.98	1.000
Copper	3.8	0.49	1.000
Iron	6,600	49	10.00
Lead	18	0.15	1.000
Magnesium	1,500	25	1.000
Manganese	110	0.49	1.000
Nickel	19	0.98	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	18	0.49	1.000
Zinc	25	0.98	1.000

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB19[4]	Batch#:	83387
Lab ID:	166624-022	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 3%

Analyte	Result	RL	Diln Fac
Aluminum	3,500	4.5	1.000
Antimony	ND	2.7	1.000
Arsenic	1.8	0.22	1.000
Barium	17	0.45	1.000
Beryllium	0.17	0.089	1.000
Cadmium	0.63	0.22	1.000
Chromium	24	0.45	1.000
Cobalt	3.5	0.89	1.000
Copper	2.5	0.45	1.000
Iron	6,200	45	10.00
Lead	7.9	0.13	1.000
Magnesium	1,500	22	1.000
Manganese	98	0.45	1.000
Nickel	19	0.89	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	16	0.45	1.000
Zinc	16	0.89	1.000

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB12[2]	Batch#:	83387
Lab ID:	166624-037	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 3%

Analyte	Result	RL	Diln Fac
Aluminum	3,700	4.6	1.000
Antimony	ND	2.8	1.000
Arsenic	1.6	0.23	1.000
Barium	34	0.46	1.000
Beryllium	0.20	0.092	1.000
Cadmium	0.97	0.23	1.000
Chromium	31	0.46	1.000
Cobalt	4.0	0.92	1.000
Copper	4.7	0.46	1.000
Iron	9,700	46	10.00
Lead	17	0.14	1.000
Magnesium	1,500	23	1.000
Manganese	120	0.46	1.000
Nickel	21	0.92	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	26	0.46	1.000
Zinc	18	0.92	1.000

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB12[3]	Batch#:	83387
Lab ID:	166624-038	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 7%

Analyte	Result	RL	Diln Fac
Aluminum	4,200	4.5	1.000
Antimony	ND	2.7	1.000
Arsenic	1.7	0.22	1.000
Barium	49	0.45	1.000
Beryllium	0.28	0.089	1.000
Cadmium	1.9	0.22	1.000
Chromium	52	0.45	1.000
Cobalt	4.3	0.89	1.000
Copper	5.8	0.45	1.000
Iron	19,000	45	10.00
Lead	17	0.13	1.000
Magnesium	1,500	22	1.000
Manganese	130	0.45	1.000
Nickel	31	0.89	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	51	0.45	1.000
Zinc	19	0.89	1.000

ND= Not Detected
 RL= Reporting Limit
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Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB02[0.3]	Batch#:	83387
Lab ID:	166624-041	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	3,800	5.0	1.000
Antimony	ND	3.0	1.000
Arsenic	1.6	0.25	1.000
Barium	73	0.50	1.000
Beryllium	0.25	0.10	1.000
Cadmium	1.1	0.25	1.000
Chromium	31	0.50	1.000
Cobalt	5.4	1.0	1.000
Copper	22	0.50	1.000
Iron ¹	9,000	50	10.00
Lead	180	0.15	1.000
Magnesium	1,700	25	1.000
Manganese	420	0.50	1.000
Nickel	25	1.0	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	0.27	0.25	1.000
Vanadium	19	0.50	1.000
Zinc	110	1.0	1.000

ND= Not Detected
 RL= Reporting Limit
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Barium

Lab #: 166624 Client: Treadwell & Rollo
 Project#: 2893.07 Location: Presidio - Firing Ranges
 Analyte: Barium Prep: EPA 3050
 Matrix: Soil Analysis: EPA 6010B
 Units: mg/Kg Diln Fac: 1.000
 Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basin	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB17[2]	SAMPLE	166624-001	21	0.50	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB17[3]	SAMPLE	166624-002	16	0.47	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[1]	SAMPLE	166624-003	55	0.50	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[2]	SAMPLE	166624-004	34	0.43	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[3]	SAMPLE	166624-005	50	0.53	dry	6%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[1]	SAMPLE	166624-006	39	0.41	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[2]	SAMPLE	166624-007	42	0.39	dry	3%	83375	07/29/03	08/01/03	08/05/03
DUP072903D	SAMPLE	166624-008	29	0.45	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[3]	SAMPLE	166624-009	28	0.47	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB08[2]	SAMPLE	166624-010	28	0.45	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[1]	SAMPLE	166624-013	35	0.38	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[2]	SAMPLE	166624-014	36	0.46	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[3]	SAMPLE	166624-015	27	0.42	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB05[1]	SAMPLE	166624-016	44	0.51	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[1]	SAMPLE	166624-017	56	0.47	dry	4%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[2]	SAMPLE	166624-018	54	0.51	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[3]	SAMPLE	166624-019	27	0.46	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB19[3]	SAMPLE	166624-021	24	0.43	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB20[1]	SAMPLE	166624-023	46	0.47	dry	7%	83375	07/29/03	08/01/03	08/05/03
CHPSB20[2]	SAMPLE	166624-024	57	0.43	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB20[3]	SAMPLE	166624-025	61	0.52	dry	7%	83377	07/29/03	08/01/03	08/05/03
CHPSB27[1]	SAMPLE	166624-026	53	0.52	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB27[2] [MSD]	SAMPLE	166624-027	64	0.49	dry	11%	83375	07/29/03	08/01/03	08/05/03
CHPSB27[3]	SAMPLE	166624-028	43	0.48	dry	9%	83377	07/29/03	08/01/03	08/05/03
DUP073003A	SAMPLE	166624-029	24	0.48	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB11[1]	SAMPLE	166624-030	20	0.45	dry	3%	83433	07/30/03	08/05/03	08/05/03
CHPSB11[2]	SAMPLE	166624-031	23	0.47	dry	4%	83433	07/30/03	08/05/03	08/05/03
CHPSB11[3] [MSD]	SAMPLE	166624-032	31	0.50	dry	4%	83377	07/30/03	08/01/03	08/05/03

ND= Not Detected
 RL= Reporting Limit
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Barium

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB13 [1]	SAMPLE	166624-033	49	0.41	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [2]	SAMPLE	166624-034	52	0.50	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [3]	SAMPLE	166624-035	54	0.44	dry	7%	83377	07/30/03	08/01/03	08/05/03
CHPSB12 [1]	SAMPLE	166624-036	31	0.44	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [0.3]	SAMPLE	166624-039	64	0.50	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [1]	SAMPLE	166624-040	52	0.40	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [1]	SAMPLE	166624-042	54	0.50	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [2] [MSD]	SAMPLE	166624-043	59	0.52	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [0.3]	SAMPLE	166624-044	90	0.46	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [1]	SAMPLE	166624-045	60	0.53	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [2]	SAMPLE	166624-046	65	0.54	dry	7%	83377	07/30/03	08/01/03	08/05/03
	BLANK	QC221068	ND	0.50	as received		83375		08/01/03	08/05/03
	BLANK	QC221075	ND	0.50	as received		83377		08/01/03	08/05/03
	BLANK	QC221112	ND	0.50	as received		83387		08/03/03	08/04/03
	BLANK	QC221303	ND	0.50	as received		83433		08/05/03	08/05/03



Copper

Lab #: 166624 Client: Treadwell & Rollo
 Project#: 2893.07 Location: Presidio - Firing Ranges
 Analyte: Copper Prep: EPA 3050
 Matrix: Soil Analysis: EPA 6010B
 Units: mg/Kg Diln Fac: 1.000
 Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB17 [2]	SAMPLE	166624-001	3.4	0.50	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB17 [3]	SAMPLE	166624-002	2.6	0.47	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [1]	SAMPLE	166624-003	8.7	0.50	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [2]	SAMPLE	166624-004	4.7	0.43	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [3]	SAMPLE	166624-005	7.2	0.53	dry	6%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [1]	SAMPLE	166624-006	58	0.41	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [2]	SAMPLE	166624-007	14	0.39	dry	3%	83375	07/29/03	08/01/03	08/05/03
DUP072903D	SAMPLE	166624-008	5.6	0.45	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [3]	SAMPLE	166624-009	9.8	0.47	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB08 [2]	SAMPLE	166624-010	4.6	0.45	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [1]	SAMPLE	166624-013	4.5	0.38	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [2]	SAMPLE	166624-014	4.3	0.46	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [3]	SAMPLE	166624-015	3.3	0.42	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB05 [1]	SAMPLE	166624-016	31	0.51	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [1]	SAMPLE	166624-017	37	0.47	dry	4%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [2]	SAMPLE	166624-018	5.7	0.51	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [3]	SAMPLE	166624-019	3.5	0.46	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB19 [3]	SAMPLE	166624-021	3.5	0.43	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB20 [1]	SAMPLE	166624-023	11	0.47	dry	7%	83375	07/29/03	08/01/03	08/05/03
CHPSB20 [2]	SAMPLE	166624-024	11	0.43	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB20 [3]	SAMPLE	166624-025	6.8	0.52	dry	7%	83377	07/29/03	08/01/03	08/05/03
CHPSB27 [1]	SAMPLE	166624-026	15	0.52	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB27 [2] [MSD]	SAMPLE	166624-027	8.6	0.49	dry	11%	83375	07/29/03	08/01/03	08/05/03
CHPSB27 [3]	SAMPLE	166624-028	8.9	0.48	dry	9%	83377	07/29/03	08/01/03	08/05/03
DUP073003A	SAMPLE	166624-029	4.9	0.48	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB11 [1]	SAMPLE	166624-030	3.9	0.45	dry	3%	83433	07/30/03	08/05/03	08/05/03
CHPSB11 [2]	SAMPLE	166624-031	3.3	0.47	dry	4%	83433	07/30/03	08/05/03	08/05/03
CHPSB11 [3] [MSD]	SAMPLE	166624-032	4.3	0.50	dry	4%	83377	07/30/03	08/01/03	08/05/03

ND= Not Detected
 RL= Reporting Limit
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Copper

Lab #: 166624 Client: Treadwell & Rollo Location: Presidio - Firing Ranges
 Project#: 2893.07 Prep: EPA 3050
 Analyte: Copper Analysis: EPA 6010B
 Matrix: Soil Diln Fac: 1.000
 Units: mg/Kg Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB13 [1]	SAMPLE	166624-033	6.0	0.41	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [2]	SAMPLE	166624-034	6.9	0.50	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [3]	SAMPLE	166624-035	7.6	0.44	dry	7%	83377	07/30/03	08/01/03	08/05/03
CHPSB12 [1]	SAMPLE	166624-036	4.5	0.44	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [0.3]	SAMPLE	166624-039	7.9	0.50	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [1]	SAMPLE	166624-040	3.9	0.40	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [1]	SAMPLE	166624-042	11	0.50	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [2] [MSD]	SAMPLE	166624-043	5.3	0.52	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [0.3]	SAMPLE	166624-044	36	0.46	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [1]	SAMPLE	166624-045	11	0.53	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [2]	SAMPLE	166624-046	4.9	0.54	dry	7%	83377	07/30/03	08/01/03	08/05/03
	BLANK	QC221068	ND	0.50	as received		83375		08/01/03	08/05/03
	BLANK	QC221075	ND	0.50	as received		83377		08/01/03	08/05/03
	BLANK	QC221112	ND	0.50	as received		83387		08/03/03	08/04/03
	BLANK	QC221303	ND	0.50	as received		83433		08/05/03	08/05/03



Lead

Lab #: 166624 Client: Treadwell & Rollo Project#: 2893.07 Analyte: Lead Matrix: Soil Location: Presidio - Firing Ranges Prep: EPA 3050 Analysis: EPA 6010B Units: mg/Kg Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Batch#	Sampled	Prepared	Analyzed
CHPSB17 [2]	SAMPLE	166624-001	6.5	0.15	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB17 [3]	SAMPLE	166624-002	3.9	0.14	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB15 [1]	SAMPLE	166624-003	54	0.15	dry	5%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB15 [2]	SAMPLE	166624-004	33	0.13	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB15 [3]	SAMPLE	166624-005	45	0.16	dry	6%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB07 [1]	SAMPLE	166624-006	6,000	1.2	dry	3%	10.00		83375	07/29/03	08/01/03	08/05/03
CHPSB07 [2]	SAMPLE	166624-007	470	0.12	dry	3%	1.000		83375	07/29/03	08/01/03	08/05/03
DUP072903D	SAMPLE	166624-008	74	0.13	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB07 [3]	SAMPLE	166624-009	260	0.14	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB14 [1]	SAMPLE	166624-012	42	0.14	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB14 [2]	SAMPLE	166624-013	14	0.12	dry	3%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB14 [3]	SAMPLE	166624-014	8.8	0.14	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB05 [1]	SAMPLE	166624-015	3.3	0.13	dry	2%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB06 [1]	SAMPLE	166624-016	1,000	0.15	dry	5%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB06 [2]	SAMPLE	166624-017	4,700	1.4	dry	4%	10.00		83375	07/29/03	08/01/03	08/05/03
CHPSB06 [3]	SAMPLE	166624-018	19	0.15	dry	3%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB19 [3]	SAMPLE	166624-019	5.4	0.14	dry	3%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB20 [1]	SAMPLE	166624-021	10	0.13	dry	3%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB20 [2]	SAMPLE	166624-023	15	0.14	dry	7%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB20 [3]	SAMPLE	166624-024	25	0.13	dry	10%	1.000		83377	07/29/03	08/01/03	08/05/03
CHPSB20 [3]	SAMPLE	166624-025	38	0.16	dry	7%	1.000		83377	07/29/03	08/01/03	08/05/03
CHPSB27 [1]	SAMPLE	166624-026	64	0.16	dry	10%	1.000		83377	07/29/03	08/01/03	08/05/03
CHPSB27 [2]	[MSD]	166624-027	4.4	0.15	dry	11%	1.000		83375	07/29/03	08/01/03	08/05/03
CHPSB27 [3]	SAMPLE	166624-028	4.1	0.14	dry	9%	1.000		83377	07/29/03	08/01/03	08/05/03
DUP073003A	SAMPLE	166624-029	51	0.14	dry	3%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB11 [1]	SAMPLE	166624-030	23	0.13	dry	3%	1.000		83433	07/30/03	08/05/03	08/05/03
CHPSB11 [2]	SAMPLE	166624-031	14	0.14	dry	4%	1.000		83433	07/30/03	08/05/03	08/05/03
CHPSB11 [3]	[MSD]	166624-032	25	0.15	dry	4%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB13 [1]	SAMPLE	166624-033	20	0.12	dry	4%	1.000		83377	07/30/03	08/01/03	08/05/03

ND= Not Detected
RL= Reporting Limit
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Lead

Lab #: 166624 Client: Treadwell & Rollo Location: Presidio - Firing Ranges
 Project#: 2893.07 Prep: EPA 3050
 Analyte: Lead Analysis: EPA 6010B
 Matrix: Soil Units: mg/Kg
 Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Diln	Fac	Batch#	Sampled	Prepared	Analyzed
CHPSB13 [2]	SAMPLE	166624-034	5.9	0.15	dry	5%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB13 [3]	SAMPLE	166624-035	5.8	0.13	dry	7%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB12 [1]	SAMPLE	166624-036	30	0.13	dry	3%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB03 [0.3]	SAMPLE	166624-039	220	0.15	dry	5%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB03 [1]	SAMPLE	166624-040	16	0.12	dry	4%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB02 [1]	SAMPLE	166624-042	33	0.15	dry	4%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB02 [2] [MSD]	SAMPLE	166624-043	8.2	0.16	dry	5%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB01 [0.3]	SAMPLE	166624-044	120	0.14	dry	6%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB01 [1]	SAMPLE	166624-045	25	0.16	dry	6%	1.000		83377	07/30/03	08/01/03	08/05/03
CHPSB01 [2]	SAMPLE	166624-046	5.3	0.16	dry	7%	1.000		83377	07/30/03	08/01/03	08/05/03
	BLANK	QC221068	ND	0.15	as received		1.000		83375		08/01/03	08/05/03
	BLANK	QC221075	ND	0.15	as received		1.000		83377		08/01/03	08/05/03
	BLANK	QC221112	ND	0.15	as received		1.000		83387		08/03/03	08/04/03
	BLANK	QC221303	ND	0.15	as received		1.000		83433		08/05/03	08/05/03



Antimony

Lab #: 166624 Client: Treadwell & Rollo Location: Presidio - Firing Ranges
 Project#: 2893.07 Prep: EPA 3050
 Analyte: Antimony Analysis: EPA 6010B
 Matrix: Soil Diln Fac: 1.000
 Units: mg/Kg Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB17 [2]	SAMPLE	166624-001	ND	3.0	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB17 [3]	SAMPLE	166624-002	ND	2.8	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [1]	SAMPLE	166624-003	ND	3.0	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [2]	SAMPLE	166624-004	ND	2.6	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15 [3]	SAMPLE	166624-005	ND	3.2	dry	6%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [1]	SAMPLE	166624-006	2.9	2.5	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [2]	SAMPLE	166624-007	2.9	2.4	dry	3%	83375	07/29/03	08/01/03	08/05/03
DUP072903D	SAMPLE	166624-008	ND	2.7	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB07 [3]	SAMPLE	166624-009	ND	2.8	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB08 [2]	SAMPLE	166624-012	ND	2.7	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [1]	SAMPLE	166624-013	ND	2.3	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [2]	SAMPLE	166624-014	ND	2.7	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14 [3]	SAMPLE	166624-015	ND	2.5	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB05 [1]	SAMPLE	166624-016	4.6	3.1	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [1]	SAMPLE	166624-017	3.7	2.8	dry	4%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [2]	SAMPLE	166624-018	ND	3.1	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB06 [3]	SAMPLE	166624-019	ND	2.8	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB19 [3]	SAMPLE	166624-021	ND	2.6	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB20 [1]	SAMPLE	166624-023	ND	2.8	dry	7%	83375	07/29/03	08/01/03	08/05/03
CHPSB20 [2]	SAMPLE	166624-024	ND	2.6	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB20 [3]	SAMPLE	166624-025	ND	3.1	dry	7%	83377	07/29/03	08/01/03	08/05/03
CHPSB27 [1]	SAMPLE	166624-026	ND	3.1	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB27 [2] [MSD]	SAMPLE	166624-027	ND	2.9	dry	11%	83375	07/29/03	08/01/03	08/05/03
CHPSB27 [3]	SAMPLE	166624-028	ND	2.9	dry	9%	83377	07/29/03	08/01/03	08/05/03
DUP073003A	SAMPLE	166624-029	ND	2.9	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB11 [1]	SAMPLE	166624-030	ND	2.7	dry	3%	83433	07/30/03	08/05/03	08/05/03
CHPSB11 [2]	SAMPLE	166624-031	ND	2.8	dry	4%	83433	07/30/03	08/05/03	08/05/03
CHPSB11 [3] [MSD]	SAMPLE	166624-032	ND	3.0	dry	4%	83377	07/30/03	08/01/03	08/05/03

ND= Not Detected
 RL= Reporting Limit
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53.0



Curtis & Tompkins, Ltd.

Antimony

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Hatch#	Sampled	Prepared	Analyzed
CHPSB13[1]	SAMPLE	166624-033	ND	2.4	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB13[2]	SAMPLE	166624-034	ND	3.0	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB13[3]	SAMPLE	166624-035	ND	2.6	dry	7%	83377	07/30/03	08/01/03	08/05/03
CHPSB12[1]	SAMPLE	166624-036	ND	2.7	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB03[0.3]	SAMPLE	166624-039	ND	3.0	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB03[1]	SAMPLE	166624-040	ND	2.4	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02[1]	SAMPLE	166624-042	ND	3.0	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02[2] [MSD]	SAMPLE	166624-043	ND	3.1	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB01[0.3]	SAMPLE	166624-044	ND	2.8	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01[1]	SAMPLE	166624-045	ND	3.2	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01[2]	SAMPLE	166624-046	ND	3.2	dry	7%	83377	07/30/03	08/01/03	08/05/03
	BLANK	QC221068	ND	3.0	as received		83375		08/01/03	08/05/03
	BLANK	QC221075	ND	3.0	as received		83377		08/01/03	08/05/03
	BLANK	QC221112	ND	3.0	as received		83387		08/03/03	08/04/03
	BLANK	QC221303	ND	3.0	as received		83433		08/05/03	08/05/03



Zinc

Lab #: 166624 Location: Presidio - Firing Ranges
 Client: Treadwell & Rollo Prep: EPA 3050
 Project#: 2893.07 Analysis: EPA 6010B
 Analyte: Zinc Diln Fac: 1.000
 Matrix: Soil Received: 07/30/03
 Units: mg/Kg

Field ID	Type	Lab ID	Result	RL	Basin	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB17[2]	SAMPLE	166624-001	15	1.0	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB17[3]	SAMPLE	166624-002	13	0.95	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[1]	SAMPLE	166624-003	43	1.0	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[2]	SAMPLE	166624-004	23	0.86	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB15[3]	SAMPLE	166624-005	39	1.1	dry	6%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[1]	SAMPLE	166624-006	67	0.82	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[2]	SAMPLE	166624-007	28	0.79	dry	3%	83375	07/29/03	08/01/03	08/05/03
DUP072903D	SAMPLE	166624-008	16	0.90	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB07[3]	SAMPLE	166624-009	23	0.94	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB08[2]	SAMPLE	166624-010	23	0.91	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[1]	SAMPLE	166624-011	24	0.77	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[2]	SAMPLE	166624-012	19	0.92	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB14[3]	SAMPLE	166624-013	16	0.84	dry	2%	83375	07/29/03	08/01/03	08/05/03
CHPSB05[1]	SAMPLE	166624-014	63	1.0	dry	5%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[1]	SAMPLE	166624-015	110	0.93	dry	4%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[2]	SAMPLE	166624-016	21	1.0	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB06[3]	SAMPLE	166624-017	18	0.92	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB19[3]	SAMPLE	166624-018	22	0.86	dry	3%	83375	07/29/03	08/01/03	08/05/03
CHPSB20[1]	SAMPLE	166624-019	73	0.94	dry	7%	83375	07/29/03	08/01/03	08/05/03
CHPSB20[2]	SAMPLE	166624-020	43	0.85	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB20[3]	SAMPLE	166624-021	32	1.0	dry	7%	83377	07/29/03	08/01/03	08/05/03
CHPSB27[1]	SAMPLE	166624-022	93	1.0	dry	10%	83377	07/29/03	08/01/03	08/05/03
CHPSB27[2]	SAMPLE	166624-023	61	0.97	dry	11%	83375	07/29/03	08/01/03	08/05/03
CHPSB27[3]	SAMPLE	166624-024	83	0.95	dry	9%	83377	07/29/03	08/01/03	08/05/03
DUP073003A	SAMPLE	166624-025	45	0.96	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB11[1]	SAMPLE	166624-026	34	0.90	dry	3%	83433	07/30/03	08/05/03	08/05/03
CHPSB11[2]	SAMPLE	166624-027	21	0.94	dry	4%	83433	07/30/03	08/05/03	08/05/03
CHPSB11[3]	SAMPLE	166624-028	25	1.0	dry	4%	83377	07/30/03	08/01/03	08/05/03

ND= Not Detected
 RL= Reporting Limit
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63.0



Curtis & Tompkins, Ltd.

Zinc

Lab #: 166624 Client: Treadwell & Rollo Project#: 2893.07 Analyte: Zinc Matrix: Soil Units: mg/Kg Location: Presidio - Firing Ranges Prep: EPA 3050 Analysis: EPA 6010B Diln Fac: 1.000 Received: 07/30/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
CHPSB13 [1]	SAMPLE	166624-033	28	0.81	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [2]	SAMPLE	166624-034	34	1.0	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB13 [3]	SAMPLE	166624-035	23	0.88	dry	7%	83377	07/30/03	08/01/03	08/05/03
CHPSB12 [1]	SAMPLE	166624-036	29	0.88	dry	3%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [0.3]	SAMPLE	166624-039	70	1.0	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB03 [1]	SAMPLE	166624-040	19	0.80	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [1]	SAMPLE	166624-042	42	0.99	dry	4%	83377	07/30/03	08/01/03	08/05/03
CHPSB02 [2] [MSD]	SAMPLE	166624-043	20	1.0	dry	5%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [0.3]	SAMPLE	166624-044	59	0.92	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [1]	SAMPLE	166624-045	46	1.1	dry	6%	83377	07/30/03	08/01/03	08/05/03
CHPSB01 [2]	SAMPLE	166624-046	19	1.1	dry	7%	83377	07/30/03	08/01/03	08/05/03
	BLANK	QC221068	ND	1.0	as received		83375		08/01/03	08/05/03
	BLANK	QC221075	ND	1.0	as received		83377		08/01/03	08/05/03
	BLANK	QC221112	ND	1.0	as received		83387		08/03/03	08/04/03
	BLANK	QC221303	ND	1.0	as received		83433		08/05/03	08/05/03

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221112	Batch#:	83387
Matrix:	Soil	Prepared:	08/03/03
Units:	mg/Kg	Analyzed:	08/04/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221068	Batch#:	83375
Matrix:	Soil	Prepared:	08/01/03
Units:	mg/Kg	Analyzed:	08/05/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221075	Batch#:	83377
Matrix:	Soil	Prepared:	08/01/03
Units:	mg/Kg	Analyzed:	08/05/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221303	Batch#:	83433
Matrix:	Soil	Prepared:	08/05/03
Units:	mg/Kg	Analyzed:	08/05/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0



Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221113

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	881.5	88	75-125
Antimony	100.0	105.5	106	75-125
Arsenic	50.00	46.30	93	75-125
Barium	100.0	87.00	87	75-125
Beryllium	2.500	2.390	96	75-125
Cadmium	10.00	8.950	90	75-125
Chromium	100.0	90.00	90	75-125
Cobalt	25.00	22.35	89	75-125
Copper	12.50	11.05	88	75-125
Iron	1,000	894.0	89	75-125
Lead	100.0	89.00	89	75-125
Magnesium	1,000	918.0	92	75-125
Manganese	25.00	21.95	88	75-125
Nickel	25.00	22.95	92	75-125
Selenium	50.00	44.30	89	75-125
Silver	10.00	8.750	88	75-125
Thallium	50.00	42.50	85	75-125
Vanadium	25.00	22.55	90	75-125
Zinc	25.00	22.35	89	75-125

Type: BSD Lab ID: QC221114

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	885.0	89	75-125	0	30
Antimony	100.0	105.5	106	75-125	0	30
Arsenic	50.00	46.30	93	75-125	0	30
Barium	100.0	88.00	88	75-125	1	30
Beryllium	2.500	2.395	96	75-125	0	30
Cadmium	10.00	8.950	90	75-125	0	30
Chromium	100.0	90.00	90	75-125	0	30
Cobalt	25.00	22.35	89	75-125	0	30
Copper	12.50	11.10	89	75-125	0	30
Iron	1,000	893.5	89	75-125	0	30
Lead	100.0	88.00	88	75-125	1	30
Magnesium	1,000	919.0	92	75-125	0	30
Manganese	25.00	22.00	88	75-125	0	30
Nickel	25.00	22.95	92	75-125	0	30
Selenium	50.00	43.80	88	75-125	1	30
Silver	10.00	8.850	89	75-125	1	30
Thallium	50.00	42.50	85	75-125	0	30
Vanadium	25.00	22.65	91	75-125	0	30
Zinc	25.00	22.40	90	75-125	0	30

Target Analyte List Metals

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221069

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.50	98	75-125
Barium	100.0	91.50	92	75-125
Copper	12.50	11.70	94	75-125
Lead	100.0	88.50	89	75-125
Zinc	25.00	21.85	87	75-125

Type: BSD Lab ID: QC221070

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	96.00	96	75-125	2	30
Barium	100.0	91.00	91	75-125	1	30
Copper	12.50	11.60	93	75-125	1	30
Lead	100.0	85.00	85	75-125	4	30
Zinc	25.00	21.30	85	75-125	3	30

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221076

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.50	96	75-125
Barium	100.0	94.00	94	75-125
Copper	12.50	12.05	96	75-125
Lead	100.0	90.50	91	75-125
Zinc	25.00	22.55	90	75-125

Type: BSD Lab ID: QC221077

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	92.00	92	75-125	4	30
Barium	100.0	91.50	92	75-125	3	30
Copper	12.50	11.65	93	75-125	3	30
Lead	100.0	86.50	87	75-125	5	30
Zinc	25.00	21.60	86	75-125	4	30

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221304

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	92.50	93	75-125
Barium	100.0	91.00	91	75-125
Copper	12.50	11.40	91	75-125
Lead	100.0	88.00	88	75-125
Zinc	25.00	21.80	87	75-125

Type: BSD Lab ID: QC221305

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.00	94	75-125	2	30
Barium	100.0	92.50	93	75-125	2	30
Copper	12.50	11.70	94	75-125	3	30
Lead	100.0	89.50	90	75-125	2	30
Zinc	25.00	22.20	89	75-125	2	30

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221069	100.0	91.50	92	75-125		
BSD	QC221070	100.0	91.00	91	75-125	1	30

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221076	100.0	94.00	94	75-125		
BSD	QC221077	100.0	91.50	92	75-125	3	30

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221113	100.0	87.00	87	75-125		
BSD	QC221114	100.0	88.00	88	75-125	1	30



Curtis & Tompkins, Ltd.

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221304	100.0	91.00	91	75-125		
BSD	QC221305	100.0	92.50	93	75-125	2	30



Curtis & Tompkins, Ltd.

Copper			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221069	12.50	11.70	94	75-125		
BSD	QC221070	12.50	11.60	93	75-125	1	30

Copper			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221076	12.50	12.05	96	75-125		
BSD	QC221077	12.50	11.65	93	75-125	3	30

Copper			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221113	12.50	11.05	88	75-125		
BSD	QC221114	12.50	11.10	89	75-125	0	30

Copper			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221304	12.50	11.40	91	75-125		
BSD	QC221305	12.50	11.70	94	75-125	3	30

Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221069	100.0	88.50	89	75-125		
BSD	QC221070	100.0	85.00	85	75-125	4	30

Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221076	100.0	90.50	91	75-125		
BSD	QC221077	100.0	86.50	87	75-125	5	30

Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221113	100.0	89.00	89	75-125		
BSD	QC221114	100.0	88.00	88	75-125	1	30

**Lead**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221304	100.0	88.00	88	75-125		
BSD	QC221305	100.0	89.50	90	75-125	2	30

Antimony			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221069	100.0	97.50	98	75-125		
BSD	QC221070	100.0	96.00	96	75-125	2	30

**Antimony**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221076	100.0	95.50	96	75-125		
BSD	QC221077	100.0	92.00	92	75-125	4	30

Antimony			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221113	100.0	105.5	106	75-125		
BSD	QC221114	100.0	105.5	106	75-125	0	30

Antimony			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221304	100.0	92.50	93	75-125		
BSD	QC221305	100.0	94.00	94	75-125	2	30

Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83375
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221069	25.00	21.85	87	75-125		
BSD	QC221070	25.00	21.30	85	75-125	3	30



Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83377
Units:	mg/Kg	Prepared:	08/01/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221076	25.00	22.55	90	75-125		
BSD	QC221077	25.00	21.60	86	75-125	4	30

Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83387
Units:	mg/Kg	Prepared:	08/03/03
Basis:	as received	Analyzed:	08/04/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221113	25.00	22.35	89	75-125		
BSD	QC221114	25.00	22.40	90	75-125	0	30

Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83433
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221304	25.00	21.80	87	75-125		
BSD	QC221305	25.00	22.20	89	75-125	2	30



Target Analyte List Metals			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03
Diln Fac:	1.000		

Moisture: 2%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	4,453	990.7	6,108 >LR	167 NM	75-125
Antimony	2.083	99.07	61.42	60 *	75-125
Arsenic	1.984	49.53	48.54	94	75-125
Barium	32.78	99.07	128.3	96	75-125
Beryllium	0.1547	2.477	2.630	100	75-125
Cadmium	0.8135	9.907	10.15	94	75-125
Chromium	28.59	99.07	127.8	100	75-125
Cobalt	4.180	24.77	27.54	94	75-125
Copper	5.126	12.38	17.44	99	75-125
Iron	7,406	990.7	8,347 >LR	95 NM	75-125
Lead	60.66	99.07	139.7	80	75-125
Magnesium	1,748	990.7	2,717	98	75-125
Manganese	124.1	24.77	147.6	95 NM	75-125
Nickel	22.38	24.77	45.82	95	75-125
Selenium	<0.1633	49.53	41.41	84	75-125
Silver	<0.02551	9.907	9.659	98	75-125
Thallium	<0.1429	49.53	44.28	89	75-125
Vanadium	19.80	24.77	43.99	98	75-125
Zinc	28.31	24.77	49.24	85	75-125

Moisture: 2%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	872.1	6,192 >LR	199 NM	75-125	NC	30
Antimony	87.21	59.74	66 *	75-125	10	30
Arsenic	43.61	44.92	98	75-125	4	30
Barium	87.21	118.2	98	75-125	1	30
Beryllium	2.180	2.390	103	75-125	2	30
Cadmium	8.721	9.288	97	75-125	3	30
Chromium	87.21	114.7	99	75-125	1	30
Cobalt	21.80	25.42	97	75-125	3	30
Copper	10.90	16.40	103	75-125	3	30
Iron	872.1	8,643 >LR	142 NM	75-125	NC	30
Lead	87.21	133.0	83	75-125	3	30
Magnesium	872.1	2,704	110	75-125	4	30
Manganese	21.80	149.1	115 NM	75-125	3	30
Nickel	21.80	44.48	101	75-125	4	30
Selenium	43.61	37.33	86	75-125	2	30
Silver	8.721	8.678	100	75-125	2	30
Thallium	43.61	40.73	93	75-125	4	30
Vanadium	21.80	42.69	105	75-125	4	30
Zinc	21.80	48.40	92	75-125	4	30

20.0



Target Analyte List Metals			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03
Diln Fac:	1.000		

Moisture: 11%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.7345	93.63	32.68	34 *	75-125
Barium	63.72	93.63	147.9	90	75-125
Copper	8.561	11.70	19.38	92	75-125
Lead	4.373	93.63	80.99	82	75-125
Zinc	61.29	23.41	76.31	64 *	75-125

Moisture: 11%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	89.89	37.89	41 *	75-125	19	30
Barium	89.89	126.7	70 *	75-125	13	30
Copper	11.24	17.08	76	75-125	10	30
Lead	89.89	78.65	83	75-125	1	30
Zinc	22.47	63.37	9 *	75-125	17	30

15.0



Target Analyte List Metals			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB11[3] [MSD]	Batch#:	83377
MSS Lab ID:	166624-032	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03
Diln Fac:	1.000		

Moisture: 4%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6210	78.91	39.85	50 *	75-125
Barium	30.70	78.91	103.8	93	75-125
Copper	4.297	9.864	13.45	93	75-125
Lead	24.59	78.91	87.99	80	75-125
Zinc	25.14	19.73	40.25	77	75-125

Moisture: 4%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	87.90	48.35	54 *	75-125	9	30
Barium	87.90	109.9	90	75-125	2	30
Copper	10.99	14.59	94	75-125	0	30
Lead	87.90	106.8	94	75-125	11	30
Zinc	21.98	42.50	79	75-125	1	30

17.0

**Target Analyte List Metals**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB02 [2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221081

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5043	87.36	38.52	44 *	75-125
Barium	59.18	87.36	140.2	93	75-125
Copper	5.342	10.92	15.85	96	75-125
Lead	8.222	87.36	82.55	85	75-125
Zinc	19.90	21.84	40.53	94	75-125

Type: MSD
Lab ID: QC221082

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	91.14	35.68	39 *	75-125	12	30
Barium	91.14	144.5	94	75-125	0	30
Copper	11.39	16.04	94	75-125	2	30
Lead	91.14	82.48	81	75-125	4	30
Zinc	22.78	37.64	78	75-125	10	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Target Analyte List Metals			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03
Diln Fac:	1.000		

Moisture: 3%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6141	90.83	52.23	57 *	75-125
Barium	20.17	90.83	103.5	92	75-125
Copper	3.859	11.35	14.62	95	75-125
Lead	22.50	90.83	90.83	75	75-125
Zinc	34.20	22.71	54.50	89	75-125

Moisture: 3%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	87.37	51.98	59 *	75-125	3	30
Barium	87.37	100.9	92	75-125	1	30
Copper	10.92	14.24	95	75-125	0	30
Lead	87.37	91.30	79	75-125	4	30
Zinc	21.84	52.42	83	75-125	2	30

22.0

**Barium**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221071	63.72	93.63	147.9	90	75-125	11%		
MSD	QC221072		89.89	126.7	70 *	75-125	11%	13	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Barium**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	CHPSB11[3] [MSD]	Batch#:	83377
MSS Lab ID:	166624-032	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221078	30.70	78.91	103.8	93	75-125	4%		
MSD	QC221079		87.90	109.9	90	75-125	4%	2	30

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	CHPSB02[2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221081	59.18	87.36	140.2	93	75-125	5%		
MSD	QC221082		91.14	144.5	94	75-125	5%	0	30

**Barium**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221115	32.78	99.07	128.3	96	75-125	2%		
MSD	QC221116		87.21	118.2	98	75-125	2%	1	30

Barium			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221306	20.17	90.83	103.5	92	75-125	3%		
MSD	QC221307		87.37	100.9	92	75-125	3%	1	30

**Copper**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221071	8.561	11.70	19.38	92	75-125	11%		
MSD	QC221072		11.24	17.08	76	75-125	11%	10	30

Coppér

Lab #: 166624
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analyte: Copper
 Field ID: CHPSB11[3] [MSD]
 MSS Lab ID: 166624-032
 Matrix: Soil
 Units: mg/Kg
 Basis: dry
 Location: Presidio - Firing Ranges
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Batch#: 83377
 Sampled: 07/30/03
 Received: 07/30/03
 Prepared: 08/01/03
 Analyzed: 08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221078	4.297	9.864	13.45	93	75-125	4%		
MSD	QC221079		10.99	14.59	94	75-125	4%	0	30



**Copper**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	CHPSB02 [2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221081	5.342	10.92	15.85	96	75-125	5%		
MSD	QC221082		11.39	16.04	94	75-125	5%	2	30

**Copper**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221115	5.126	12.38	17.44	99	75-125	2%		
MSD	QC221116		10.90	16.40	103	75-125	2%	3	30

Copper			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221306	3.859	11.35	14.62	95	75-125	3%		
MSD	QC221307		10.92	14.24	95	75-125	3%	0	30

**Lead**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221071	4.373	93.63	80.99	82	75-125	11%		
MSD	QC221072		89.89	78.65	83	75-125	11%	1	30



Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	CHPSB11[3] [MSD]	Batch#:	83377
MSS Lab ID:	166624-032	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221078	24.59	78.91	87.99	80	75-125	4%		
MSD	QC221079		87.90	106.8	94	75-125	4%	11	30

Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	CHPSB02[2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221081	8.222	87.36	82.55	85	75-125	5%		
MSD	QC221082		91.14	82.48	81	75-125	5%	4	30

Lead			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221115	60.66	99.07	139.7	80	75-125	2%		
MSD	QC221116		87.21	133.0	83	75-125	2%	3	30

**Lead**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221306	22.50	90.83	90.83	75	75-125	3%		
MSD	QC221307		87.37	91.30	79	75-125	3%	4	30

**Antimony**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221071	0.7345	93.63	32.68	34 *	75-125	11%		
MSD	QC221072		89.89	37.89	41 *	75-125	11%	19	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	CHPSB11[3] [MSD]	Batch#:	83377
MSS Lab ID:	166624-032	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221078	0.6210	78.91	39.85	50 *	75-125	4%		
MSD	QC221079		87.90	48.35	54 *	75-125	4%	9	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	CHPSB02[2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221081	0.5043	87.36	38.52	44 *	75-125	5%		
MSD	QC221082		91.14	35.68	39 *	75-125	5%	12	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Antimony**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221115	2.083	99.07	61.42	60 *	75-125	2%		
MSD	QC221116		87.21	59.74	66 *	75-125	2%	10	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221306	0.6141	90.83	52.23	57 *	75-125	3%		
MSD	QC221307		87.37	51.98	59 *	75-125	3%	3	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Zinc**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	CHPSB27[2] [MSD]	Batch#:	83375
MSS Lab ID:	166624-027	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221071	61.29	23.41	76.31	64 *	75-125	11%		
MSD	QC221072		22.47	63.37	9 *	75-125	11%	17	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	CHPSB11 [3] [MSD]	Batch#:	83377
MSS Lab ID:	166624-032	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221078	25.14	19.73	40.25	77	75-125	4%		
MSD	QC221079		21.98	42.50	79	75-125	4%	1	30

Zinc			
Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	CHPSB02 [2] [MSD]	Batch#:	83377
MSS Lab ID:	166624-043	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/01/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221081	19.90	21.84	40.53	94	75-125	5%		
MSD	QC221082		22.78	37.64	78	75-125	5%	10	30

**Zinc**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	CHPSB08[1]	Batch#:	83387
MSS Lab ID:	166624-011	Sampled:	07/29/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/03/03
Basis:	dry	Analyzed:	08/04/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221115	28.31	24.77	49.24	85	75-125	2%		
MSD	QC221116		21.80	48.40	92	75-125	2%	4	30

**Zinc**

Lab #:	166624	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	CHPSB11[1]	Batch#:	83433
MSS Lab ID:	166624-030	Sampled:	07/30/03
Matrix:	Soil	Received:	07/30/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221306	34.20	22.71	54.50	89	75-125	3%		
MSD	QC221307		21.84	52.42	83	75-125	3%	2	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901009	Seqnum : 73312901010
Filename : tr212490	Filename : tr212491
IDF : 1.0	IDF : 5.0
PDF : 43.29004	PDF : 43.29004
Run type : MSS	Run type : SER
Samplenum: 166624-027	Samplenum: QC221073
Matrix : Soil	Matrix : Soil
Batchnum : 83375	Batchnum : 83375
Inj : 05-AUG-2003 07:41	Inj : 05-AUG-2003 07:50
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.60	ND	13.0	--	10		u
Arsenic	2.10	0.216	2.29	1.08	--	10		u
Barium	56.7	0.433	56.7	2.16	0	10		u
Beryllium	0.498	0.0866	0.517	0.433	--	10		u
Cadmium	1.65	0.216	1.65	1.08	--	10		u
Calcium	1840	21.6	1970	108	7	10		u
Chromium	68.4	0.433	72.5	2.16	6	10		u
Cobalt	14.4	0.866	15.4	4.33	7	10		u
Copper	7.62	0.433	7.36	2.16	3	10		u
Iron	*** usable MSS data not found ***							
Lead	3.89	0.130	4.11	0.649	6	10		u
Magnesium	2180	21.6	2330	108	7	10		u
Manganese	284	0.433	303	2.16	7	10		u
Molybdenum	ND	0.866	ND	4.33	--	10		u
Nickel	49.4	0.866	53.2	4.33	8	10		u
Selenium	ND	0.216	ND	1.08	--	10		u
Silver	ND	0.216	ND	1.08	--	10		u
Thallium	*** usable MSS data not found ***							
Vanadium	41.0	0.433	42.6	2.16	4	10		u
Zinc	54.5	0.866	58.7	4.33	8	10		u
Titanium	*** usable MSS data not found ***							

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901009	Seqnum : 73312901013
Filename : tr212490	Filename : tr212494
IDF : 1.0	IDF : 1.0
PDF : 43.29004	PDF : 43.29004
Run type : MSS	Run type : PDS
Samplenum: 166624-027	Samplenum: QC221275
Matrix : Soil	Matrix : Soil
Batchnum : 83375	Batchnum : 83375
Inj : 05-AUG-2003 07:41	Inj : 05-AUG-2003 08:02
Units : ug/L	

Analyte	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***				
Antimony	15.10	2000	1890 94	15-123	u
Arsenic	48.60	1000	930.0 88	40-126	u
Barium	1310	2000	3110 90	19-138	u
Beryllium	11.50	50	57.00 91	58-120	u
Cadmium	38.00	200	200.0 81	47-120	u
Calcium	42430	20000	57830 77	16-150	u
Chromium	1580	2000	3230 83	35-131	u
Cobalt	333.0	500	736.0 81	39-120	u
Copper	176.0	250	409.0 93	32-150	u
Iron	*** usable MSS data not found ***				
Lead	89.90	2000	1710 81	23-137	u
Magnesium	50340	20000	66570 81	20-150	u
Manganese	6570	500	6820 50	15-150	:u
Molybdenum	4.990	400	362.0 89	28-120	u
Nickel	1140	500	1520 76	32-136	u
Selenium	ND	1000	802.0 80	38-120	u
Silver	ND	200	178.0 89	55-120	u
Thallium	*** usable MSS data not found ***				
Vanadium	946.0	500	1350 81	25-130	u
Zinc	1260	500	1640 76	20-147	u
Titanium	*** usable MSS data not found ***				

:=recovery not meaningful u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901099	Seqnum : 73312901100
Filename : tr212580	Filename : tr212581
IDF : 1.0	IDF : 5.0
PDF : 48.07692	PDF : 48.07692
Run type : MSS	Run type : SER
Samplenum: 166624-032	Samplenum: QC221080
Matrix : Soil	Matrix : Soil
Batchnum : 83377	Batchnum : 83377
Inj : 05-AUG-2003 14:40	Inj : 05-AUG-2003 14:44
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	4500	4.81	4540	24.0	1	10		u
Antimony	ND	2.88	ND	14.4	--	10		u
Arsenic	1.97	0.240	1.99	1.20	--	10		u
Barium	29.5	0.481	29.8	2.40	1	10		u
Beryllium	0.236	0.0962	ND	0.481	--	10		u
Cadmium	0.918	0.240	ND	1.20	--	10		u
Calcium	2980	24.0	3130	120	5	10		u
Chromium	34.4	0.481	35.3	2.40	3	10		u
Cobalt	4.25	0.962	ND	4.81	--	10		u
Copper	4.13	0.481	3.99	2.40	--	10		u
Iron	*** usable MSS data not found ***							
Lead	23.6	0.144	25.2	0.721	7	10		u
Magnesium	1720	24.0	1810	120	5	10		u
Manganese	128	0.481	133	2.40	4	10		u
Molybdenum	ND	0.962	ND	4.81	--	10		u
Nickel	21.7	0.962	22.9	4.81	6	10		u
Selenium	ND	0.240	ND	1.20	--	10		u
Silver	ND	0.240	ND	1.20	--	10		u
Thallium	ND	0.240	ND	1.20	--	10		u
Vanadium	25.9	0.481	26.4	2.40	2	10		u
Zinc	24.1	0.962	25.2	4.81	5	10		u
Titanium	390	0.481	392	2.40	0	10		u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901124	Seqnum : 73312901125
Filename : tr212605	Filename : tr212606
IDF : 1.0	IDF : 5.0
PDF : 43.47826	PDF : 43.47826
Run type : MSS	Run type : SER
Samplenum: 166624-030	Samplenum: QC221308
Matrix : Soil	Matrix : Soil
Batchnum : 83433	Batchnum : 83433
Inj : 05-AUG-2003 16:16	Inj : 05-AUG-2003 16:21
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	2870	4.35	2980	21.7	4	10		u
Antimony	ND	2.61	ND	13.0	--	10		u
Arsenic	1.72	0.217	1.46	1.09	--	10		ab*
Barium	19.6	0.435	20.5	2.17	5	10		u
Beryllium	0.210	0.0870	ND	0.435	--	10		u
Cadmium	0.935	0.217	ND	1.09	--	10		u
Calcium	1830	21.7	1970	109	8	10		u
Chromium	30.3	0.435	32.2	2.17	6	10		u
Cobalt	3.24	0.870	ND	4.35	--	10		u
Copper	3.74	0.435	3.83	2.17	--	10		u
Iron	*** usable MSS data not found ***							
Lead	21.8	0.130	23.5	0.652	8	10		u
Magnesium	1320	21.7	1420	109	8	10		u
Manganese	91.7	0.435	98.7	2.17	8	10		u
Molybdenum	ND	0.870	ND	4.35	--	10		u
Nickel	18.7	0.870	20.2	4.35	8	10		u
Selenium	ND	0.217	ND	1.09	--	10		u
Silver	ND	0.217	ND	1.09	--	10		u
Thallium	ND	0.217	ND	1.09	--	10		u
Vanadium	25.0	0.435	26.3	2.17	5	10		u
Zinc	33.2	0.870	35.7	4.35	7	10		u
Titanium	202	0.435	211	2.17	5	10		u

Method: 6010B Standard: blank

Run Time: 08/05/03 06:43:00

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.003	.002	.012	.005	.005
SDev	.003	.002	.000	.001	.001	.005	.001
%RSD	323.	198.	1.79	63.9	10.0	116.	22.4
#1	-.003	-.000	-.003	.001	.013	.001	.006
#2	.001	.003	-.003	.003	.011	.008	.004
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.031	.016	-.001	.001	-.002	-.011
SDev	.000	.000	.004	.008	.004	.000	.001
%RSD	2.67	1.39	27.7	1000.	396.	17.4	9.49
#1	-.002	-.032	.013	.005	.004	-.003	-.012
#2	-.002	-.031	.019	-.006	-.002	-.002	-.010
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.009	-.004	-.002	.000	.032	.1955	.0007
SDev	.002	.003	.001	.000	.000	.0007	.0001
%RSD	26.1	72.0	50.0	566.	.747	.3375	14.14
#1	.010	-.005	-.001	-.000	.032	.1960	.0007
#2	.007	-.002	-.003	.000	.031	.1951	.0006
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0015	.0012	.003	.345			
SDev	.0018	.0002	.000	.001			
%RSD	122.6	15.71	6.43	.246			
#1	-.0002	.0011	.003	.345			
#2	-.0028	.0013	.003	.344			

Method: 6010B Standard: cst hi

Run Time: 08/05/03 06:49:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.33	.483	66.9	7.66	2.73	.549
SDev	.07	.03	.005	.1	.00	.01	.001
%RSD	3.18	2.57	1.13	.104	.045	.353	.094
#1	2.09	1.31	.479	66.9	7.66	2.72	.550
#2	2.18	1.36	.487	67.0	7.67	2.73	.549
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.59	1.37	1.74	1.88	3.33	4.42	.507
SDev	.00	.00	.00	.00	.01	.01	.002
%RSD	.187	.030	.019	.178	.230	.185	.474
#1	1.58	1.37	1.74	1.88	3.32	4.41	.509
#2	1.59	1.37	1.74	1.88	3.33	4.42	.505
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.648	.765	.324	2.19	.376	.4380	.6132
SDev	.003	.003	.003	.00	.001	.0001	.0006
%RSD	.415	.438	.843	.017	.276	.0323	.0999
#1	.649	.762	.326	2.19	.376	.4381	.6127
#2	.646	.767	.322	2.19	.377	.4379	.6136
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2639	.4125	2.07	21.8			
SDev	.0022	.0006	.00	.0			
%RSD	.8216	.1371	.116	.120			
#1	.2655	.4121	2.07	21.8			
#2	.2624	.4129	2.07	21.9			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	466.177	.435099	08/05/03 06:49:13
Sb206A	206.832	Multiple	Standards	735.796	-.858429	08/05/03 06:49:13
As1890	189.042	Multiple	Standards	1031.42	2.71608	08/05/03 06:49:13
Ba4934	493.409	Multiple	Standards	14.9453	-.030887	08/05/03 06:49:13
Be3130	313.042	Multiple	Standards	12.6223	-.148522	08/05/03 06:49:13
Cd2265	226.502	Multiple	Standards	36.7061	-.166401	08/05/03 06:49:13
Cr2677	267.716	Multiple	Standards	367.485	-1.77618	08/05/03 06:49:13
Co2286	228.616	Multiple	Standards	314.795	.556139	08/05/03 06:49:13
Cu3247	324.754	Multiple	Standards	142.448	4.44357	08/05/03 06:49:13
Pb2203	220.351	Multiple	Standards	289.316	-4.58083	08/05/03 06:49:13
Pb220A	220.352	Multiple	Standards	263.472	.201995	08/05/03 06:49:13
Mo2020	202.030	Multiple	Standards	300.752	-.300752	08/05/03 06:49:13
Ni2316	231.604	Multiple	Standards	112.931	.274798	08/05/03 06:49:13
Se1960	196.021	Multiple	Standards	966.158	10.5633	08/05/03 06:49:13
Se196A	196.022	Multiple	Standards	782.009	-6.77741	08/05/03 06:49:13
Ag3280	328.068	Multiple	Standards	130.157	.459890	08/05/03 06:49:13
Tl1908	190.864	Multiple	Standards	1540.32	3.33737	08/05/03 06:49:13
V_2924	292.402	Multiple	Standards	228.504	-.015234	08/05/03 06:49:13
Zn2138	213.856	Multiple	Standards	300.626	-9.48977	08/05/03 06:49:13
Al3082	308.215	Multiple	Standards	4176.87	-816.717	08/05/03 06:49:13
Ca3179	317.933	Multiple	Standards	3265.35	-2.17690	08/05/03 06:49:13
Fe2714	271.441	Multiple	Standards	3928.75	5.89313	08/05/03 06:49:13
Mg2790	279.079	Multiple	Standards	4861.70	-5.83404	08/05/03 06:49:13
Mn2576	257.610	Multiple	Standards	48.4285	-.142057	08/05/03 06:49:13
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Ti3349	334.941	Multiple	Standards	46.5198	-16.0369	08/05/03 06:49:13

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901001

Run Name :
Filename : tr212482

Injected : 05-AUG-2003 07:01
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	996.8000	ug/L	0	5	
Antimony	1000.000	978.0000	ug/L	-2	5	
Arsenic	500.0000	494.0000	ug/L	-1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	99.60000	ug/L	0	5	
Cadmium	100.0000	99.70000	ug/L	0	5	
Calcium	2000.000	1993.000	ug/L	0	5	
Chromium	200.0000	199.0000	ug/L	-1	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	997.3000	ug/L	0	5	
Lead	500.0000	499.0000	ug/L	0	5	
Magnesium	2000.000	1995.000	ug/L	0	5	
Manganese	100.0000	99.50000	ug/L	-1	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	499.0000	ug/L	0	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	497.0000	ug/L	-1	5	
Titanium	1000.000	998.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	99.60000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901002

Run Name :
Filename : tr212483

Injected : 05-AUG-2003 07:05
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	502.9000	ug/L	1	10	
Antimony	500.0000	506.0000	ug/L	1	10	
Arsenic	250.0000	260.0000	ug/L	4	10	
Barium	500.0000	500.0000	ug/L	0	10	
Beryllium	50.00000	52.70000	ug/L	5	10	
Cadmium	50.00000	50.60000	ug/L	1	10	
Calcium	1000.000	1043.000	ug/L	4	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	255.0000	ug/L	2	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	534.4000	ug/L	7	10	
Lead	250.0000	256.0000	ug/L	2	10	
Magnesium	1000.000	1065.000	ug/L	7	10	
Manganese	50.00000	51.40000	ug/L	3	10	
Molybdenum	500.0000	511.0000	ug/L	2	10	
Nickel	250.0000	259.0000	ug/L	4	10	
Selenium	250.0000	254.0000	ug/L	2	10	
Silver	50.00000	51.40000	ug/L	3	10	
Thallium	250.0000	254.0000	ug/L	2	10	
Titanium	500.0000	520.0000	ug/L	4	10	
Vanadium	250.0000	254.0000	ug/L	2	10	
Zinc	50.00000	51.00000	ug/L	2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901004

Run Name :
Filename : tr212485

Injected : 05-AUG-2003 07:14
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	106.9000	ug/L	7	50	
Antimony	60.00000	72.60000	ug/L	21	50	
Arsenic	5.000000	5.660000	ug/L	13	50	
Barium	10.00000	10.10000	ug/L	1	50	
Beryllium	2.000000	1.970000	ug/L	-2	50	
Cadmium	5.000000	4.970000	ug/L	-1	50	
Chromium	10.00000	8.890000	ug/L	-11	50	
Cobalt	20.00000	20.10000	ug/L	1	50	
Copper	10.00000	10.20000	ug/L	2	50	
Iron	100.0000	102.6000	ug/L	3	50	
Lead	3.000000	1.550000	ug/L	-48	50	
Manganese	10.00000	9.990000	ug/L	0	50	
Molybdenum	20.00000	19.50000	ug/L	-3	50	
Nickel	20.00000	21.00000	ug/L	5	50	
Selenium	5.000000	5.500000	ug/L	10	50	
Silver	5.000000	5.140000	ug/L	3	50	
Thallium	5.000000	6.150000	ug/L	23	50	
Vanadium	10.00000	10.50000	ug/L	5	50	
Zinc	20.00000	21.40000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901014

Run Name :
Filename : tr212495

Injected : 05-AUG-2003 08:10
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.1000	ug/L	2	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	261.0000	ug/L	4	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	51.90000	ug/L	4	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	529.2000	ug/L	6	10	
Lead		250.0000	256.0000	ug/L	2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901026

Run Name :
Filename : tr212507

Injected : 05-AUG-2003 09:02
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	768.8000	ug/L	3	10	
Antimony		750.0000	770.0000	ug/L	3	10	
Arsenic		375.0000	386.0000	ug/L	3	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	71.80000	ug/L	-4	10	
Calcium		1500.000	1510.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	772.5000	ug/L	3	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	369.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	68.30000	ug/L	-9	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	72.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901038

Run Name :
Filename : tr212519

Injected : 05-AUG-2003 10:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	518.2000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	47.20000	ug/L	-6	10	
Calcium		1000.000	1002.000	ug/L	0	10	
Chromium		100.0000	97.80000	ug/L	-2	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	526.2000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	474.0000	ug/L	-5	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	51.40000	ug/L	3	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73312901050

Run Name :
Filename : tr212531

Injected : 05-AUG-2003 11:01
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.1000	ug/L	1	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	71.00000	ug/L	-5	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	69.90000	ug/L	-7	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901061

Run Name :
Filename : tr212542

Injected : 05-AUG-2003 11:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	515.8000	ug/L	3	10	
Antimony		500.0000	487.0000	ug/L	-3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	479.4000	ug/L	-4	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	490.0000	ug/L	-2	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	53.60000	ug/L	7	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901072

Run Name :
Filename : tr212553

Injected : 05-AUG-2003 12:30
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	760.0000	ug/L	1	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	75.10000	ug/L	0	10	
Cadmium		75.00000	69.70000	ug/L	-7	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	360.0000	ug/L	-4	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	718.2000	ug/L	-4	10	
Lead		375.0000	357.0000	ug/L	-5	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	73.20000	ug/L	-2	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	364.0000	ug/L	-3	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	69.60000	ug/L	-7	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.00000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901084

Run Name :
Filename : tr212565

Injected : 05-AUG-2003 13:20
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	508.0000	ug/L	2	10	
Antimony		500.0000	501.0000	ug/L	0	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	50.60000	ug/L	1	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	1001.000	ug/L	0	10	
Chromium		100.0000	99.80000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	524.8000	ug/L	5	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1013.000	ug/L	1	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	53.40000	ug/L	7	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	49.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901095

Run Name :
Filename : tr212576

Injected : 05-AUG-2003 14:19
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	250.9000	ug/L	0	10	
Antimony		250.0000	243.0000	ug/L	-3	10	
Arsenic		125.0000	132.0000	ug/L	6	10	
Barium		250.0000	251.0000	ug/L	0	10	
Beryllium		25.00000	26.10000	ug/L	4	10	
Cadmium		25.00000	25.80000	ug/L	3	10	
Calcium		500.0000	528.8000	ug/L	6	10	
Chromium		50.00000	50.60000	ug/L	1	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	52.40000	ug/L	5	10	
Iron		250.0000	247.4000	ug/L	-1	10	
Lead		125.0000	128.0000	ug/L	2	10	
Magnesium		500.0000	532.3000	ug/L	6	10	
Manganese		25.00000	25.50000	ug/L	2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	131.0000	ug/L	5	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	27.50000	ug/L	10	10	
Thallium		125.0000	126.0000	ug/L	1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.50000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901107

Run Name :
Filename : tr212588

Injected : 05-AUG-2003 15:10
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	773.8000	ug/L	3	10	
Antimony		750.0000	733.0000	ug/L	-2	10	
Arsenic		375.0000	400.0000	ug/L	7	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	79.70000	ug/L	6	10	
Cadmium		75.00000	78.60000	ug/L	5	10	
Calcium		1500.000	1540.000	ug/L	3	10	
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	385.0000	ug/L	3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	840.1000	ug/L	12	10	1 ***
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1585.000	ug/L	6	10	
Manganese		75.00000	76.80000	ug/L	2	10	
Molybdenum		750.0000	763.0000	ug/L	2	10	
Nickel		375.0000	396.0000	ug/L	6	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	70.20000	ug/L	-6	10	
Thallium		375.0000	380.0000	ug/L	1	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901119

Run Name :
Filename : tr212600

Injected : 05-AUG-2003 15:58
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	479.8000	ug/L	-4	10	
Antimony		500.0000	472.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	1008.000	ug/L	1	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	500.2000	ug/L	0	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	53.10000	ug/L	6	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	49.70000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901130

Run Name :
Filename : tr212611

Injected : 05-AUG-2003 16:44
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	709.3000	ug/L	-5	10	
Antimony		750.0000	729.0000	ug/L	-3	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1445.000	ug/L	-4	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	736.3000	ug/L	-2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1502.000	ug/L	0	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	383.0000	ug/L	2	10	
Silver		75.00000	71.30000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901137

Run Name :
Filename : tr212618

Injected : 05-AUG-2003 17:16
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	763.4000	ug/L	2	10	
Antimony		750.0000	741.0000	ug/L	-1	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	75.30000	ug/L	0	10	
Calcium		1500.000	1505.000	ug/L	0	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	752.6000	ug/L	0	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1561.000	ug/L	4	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901003
Filename: tr212484

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 05-AUG-2003 07:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.100]	60.00000	ug/L	<RL	
Arsenic	[1.2700]	5.000000	ug/L	<RL	
Barium	[0.1320]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.4347]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1980]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.0400]	20.00000	ug/L	<RL	
Nickel	[0.3850]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.3240]	10.00000	ug/L	<RL	
Vanadium	[0.2100]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901015
Filename: tr212496

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 08:15

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[9.3500]		60.00000	ug/L	<RL	
Arsenic	ND		5.000000	ug/L	<RL	
Barium	[0.0960]		10.00000	ug/L	<RL	
Beryllium	[0.1410]		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[3.3760]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	[0.0450]		10.00000	ug/L	<RL	
Iron	[6.4310]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	[4.5380]		500.0000	ug/L	<RL	
Manganese	[0.1840]		10.00000	ug/L	<RL	
Molybdenum	[3.4000]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	[1.4000]		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[2.2900]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	[0.9740]		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901027
Filename: tr212508

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 09:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[12.900]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1440]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0140]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.2530]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[2.8700]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.3900]		10.00000	ug/L	<	RL
Vanadium	[0.1850]		10.00000	ug/L	<	RL
Zinc	[0.4080]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901039
Filename: tr212520

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 10:11

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[11.000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1460]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.6880]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0400]	10.00000	ug/L	<RL	
Copper	[0.5540]	10.00000	ug/L	<RL	
Iron	[4.5240]	100.0000	ug/L	<RL	
Lead	[0.6000]	3.000000	ug/L	<RL	
Magnesium	[3.0720]	500.0000	ug/L	<RL	
Manganese	[0.1310]	10.00000	ug/L	<RL	
Molybdenum	[4.2100]	20.00000	ug/L	<RL	
Nickel	[0.2460]	20.00000	ug/L	<RL	
Selenium	[0.3620]	5.000000	ug/L	<RL	
Silver	[0.3350]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3100]	10.00000	ug/L	<RL	
Vanadium	[0.2040]	10.00000	ug/L	<RL	
Zinc	[0.1590]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901051
Filename: tr212532

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:10

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[15.800]		60.00000	ug/L	<	RL
Arsenic	[1.6300]		5.000000	ug/L	<	RL
Barium	[0.2940]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0210]		5.000000	ug/L	<	RL
Calcium	[2.1500]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.2390]		10.00000	ug/L	<	RL
Copper	[0.6250]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[1.9960]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[9.2400]		20.00000	ug/L	<	RL
Nickel	[0.4890]		20.00000	ug/L	<	RL
Selenium	[0.9670]		5.000000	ug/L	<	RL
Silver	[0.3220]		5.000000	ug/L	<	RL
Thallium	[0.4480]		5.000000	ug/L	<	RL
Titanium	[1.6500]		10.00000	ug/L	<	RL
Vanadium	[0.3540]		10.00000	ug/L	<	RL
Zinc	[0.3670]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901062
Filename: tr212543

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:53

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.5100]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2190]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[11.680]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.7730]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[1.0200]		3.000000	ug/L	<	RL
Magnesium	[8.9070]		500.0000	ug/L	<	RL
Manganese	[0.1150]		10.00000	ug/L	<	RL
Molybdenum	[2.7700]		20.00000	ug/L	<	RL
Nickel	[0.1340]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.2500]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[0.2800]		10.00000	ug/L	<	RL
Vanadium	[0.0480]		10.00000	ug/L	<	RL
Zinc	[0.1220]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901073
Filename: tr212554

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 12:37

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[25.400]	60.00000	ug/L	<RL	
Arsenic	[0.1590]	5.000000	ug/L	<RL	
Barium	[0.4410]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.2170]	5.000000	ug/L	<RL	
Calcium	[3.1740]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2390]	10.00000	ug/L	<RL	
Copper	[0.5920]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.8530]	3.000000	ug/L	<RL	
Magnesium	[2.4570]	500.0000	ug/L	<RL	
Manganese	[0.0490]	10.00000	ug/L	<RL	
Molybdenum	[15.200]	20.00000	ug/L	<RL	
Nickel	[0.5330]	20.00000	ug/L	<RL	
Selenium	[0.7730]	5.000000	ug/L	<RL	
Silver	[0.2720]	5.000000	ug/L	<RL	
Thallium	[1.5800]	5.000000	ug/L	<RL	
Titanium	[2.1000]	10.00000	ug/L	<RL	
Vanadium	[0.5000]	10.00000	ug/L	<RL	
Zinc	[0.2710]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901085
Filename: tr212566

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 13:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[2.4520]	100.0000	ug/L	<RL	
Antimony	[54.900]	60.00000	ug/L	<RL	
Arsenic	[0.5140]	5.000000	ug/L	<RL	
Barium	[0.3290]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1470]	5.000000	ug/L	<RL	
Calcium	[4.0820]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3140]	10.00000	ug/L	<RL	
Copper	[0.5920]	10.00000	ug/L	<RL	
Iron	[4.1220]	100.0000	ug/L	<RL	
Lead	[0.5740]	3.000000	ug/L	<RL	
Magnesium	[1.7580]	500.0000	ug/L	<RL	
Manganese	[0.1830]	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	[0.3260]	20.00000	ug/L	<RL	
Selenium	[0.7070]	5.000000	ug/L	<RL	
Silver	[0.2560]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5900]	10.00000	ug/L	<RL	
Vanadium	[0.2610]	10.00000	ug/L	<RL	
Zinc	[0.0860]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901096
Filename: tr212577

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 14:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[0.8580]	60.00000	ug/L	<RL	
Arsenic	[1.2100]	5.000000	ug/L	<RL	
Barium	[0.1050]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0680]	5.000000	ug/L	<RL	
Calcium	[3.4510]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1990]	10.00000	ug/L	<RL	
Copper	[0.3480]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.4930]	3.000000	ug/L	<RL	
Magnesium	[0.1587]	500.0000	ug/L	<RL	
Manganese	[0.0390]	10.00000	ug/L	<RL	
Tungsten	[1.5800]	20.00000	ug/L	<RL	
Nickel	[0.1020]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.3510]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.8350]	10.00000	ug/L	<RL	
Vanadium	[0.1610]	10.00000	ug/L	<RL	
Zinc	[0.3900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901108
Filename: tr212589

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 15:14

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[7.7010]	100.0000	ug/L	<RL	
Antimony	[3.6200]	60.00000	ug/L	<RL	
Arsenic	[0.4480]	5.000000	ug/L	<RL	
Barium	[0.3490]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0190]	5.000000	ug/L	<RL	
Calcium	[8.1660]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1460]	10.00000	ug/L	<RL	
Copper	[0.4490]	10.00000	ug/L	<RL	
Iron	[18.540]	100.0000	ug/L	<RL	
Lead	[0.4120]	3.000000	ug/L	<RL	
Magnesium	[5.4330]	500.0000	ug/L	<RL	
Manganese	[0.4060]	10.00000	ug/L	<RL	
Molybdenum	[4.3600]	20.00000	ug/L	<RL	
Nickel	[0.3900]	20.00000	ug/L	<RL	
Selenium	[0.4000]	5.000000	ug/L	<RL	
Silver	[0.1600]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6300]	10.00000	ug/L	<RL	
Vanadium	[0.2060]	10.00000	ug/L	<RL	
Zinc	[0.4070]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901120
Filename: tr212601

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:02

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[2.0720]	100.0000	ug/L	<RL	
Antimony	[20.000]	60.00000	ug/L	<RL	
Arsenic	[1.8300]	5.000000	ug/L	<RL	
Barium	[0.2790]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[7.7450]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1570]	10.00000	ug/L	<RL	
Copper	[0.5010]	10.00000	ug/L	<RL	
Iron	[10.330]	100.0000	ug/L	<RL	
Lead	[0.4520]	3.000000	ug/L	<RL	
Magnesium	[3.9950]	500.0000	ug/L	<RL	
Manganese	[0.2930]	10.00000	ug/L	<RL	
Molybdenum	[4.8200]	20.00000	ug/L	<RL	
Nickel	[0.3710]	20.00000	ug/L	<RL	
Selenium	[1.2700]	5.000000	ug/L	<RL	
Silver	[0.5460]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.4200]	10.00000	ug/L	<RL	
Vanadium	[0.3080]	10.00000	ug/L	<RL	
Zinc	[0.4170]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901131
Filename: tr212612

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:51

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.7529]	100.0000	ug/L	<RL		
Antimony	[49.100]	60.00000	ug/L	<RL		
Arsenic	[0.2380]	5.000000	ug/L	<RL		
Barium	[0.3710]	10.00000	ug/L	<RL		
Beryllium	[0.1250]	2.000000	ug/L	<RL		
Cadmium	[0.0010]	5.000000	ug/L	<RL		
Calcium	[3.3490]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0840]	10.00000	ug/L	<RL		
Copper	[0.2190]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.2580]	3.000000	ug/L	<RL		
Magnesium	[2.3960]	500.0000	ug/L	<RL		
Manganese	[0.0810]	10.00000	ug/L	<RL		
Molybdenum	[8.5700]	20.00000	ug/L	<RL		
Nickel	[0.4710]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.9600]	10.00000	ug/L	<RL		
Vanadium	[0.3200]	10.00000	ug/L	<RL		
Zinc	[0.1880]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901138
Filename: tr212619

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 17:21

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[2.3430]	100.0000	ug/L	<RL		
Antimony	[7.5200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1900]	10.00000	ug/L	<RL		
Beryllium	[0.0720]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[12.870]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.2390]	10.00000	ug/L	<RL		
Iron	[2.0160]	100.0000	ug/L	<RL		
Lead	[0.1900]	3.000000	ug/L	<RL		
Magnesium	[13.100]	500.0000	ug/L	<RL		
Manganese	[0.1050]	10.00000	ug/L	<RL		
Molybdenum	[3.3000]	20.00000	ug/L	<RL		
Nickel	[0.2120]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.4790]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.4500]	10.00000	ug/L	<RL		
Vanadium	[0.1040]	10.00000	ug/L	<RL		
Zinc	[0.0970]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901005

Run Name :
Filename : tr212486

Injected : 05-AUG-2003 07:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	474000.0	ug/L	-5			
Antimony	500.0000	458.0000	ug/L	-8		20	
Arsenic	500.0000	494.0000	ug/L	-1		20	
Barium	500.0000	454.0000	ug/L	-9		20	
Beryllium	500.0000	437.0000	ug/L	-13		20	
Cadmium	1000.000	847.0000	ug/L	-15		20	
Calcium	500000.0	378900.0	ug/L	-24			
Chromium	500.0000	424.0000	ug/L	-15		20	
Cobalt	500.0000	420.0000	ug/L	-16		20	
Copper	500.0000	487.0000	ug/L	-3		20	
Iron	200000.0	168400.0	ug/L	-16			
Lead	1000.000	917.0000	ug/L	-8		20	
Magnesium	500000.0	471000.0	ug/L	-6			
Manganese	500.0000	434.0000	ug/L	-13		20	
Molybdenum	500.0000	430.0000	ug/L	-14		20	
Nickel	1000.000	915.0000	ug/L	-9		20	
Selenium	500.0000	471.0000	ug/L	-6		20	
Silver	1000.000	1010.000	ug/L	1		20	
Thallium	500.0000	430.0000	ug/L	-14		20	
Titanium	20000.00	1820.000	ug/L	-91			
Vanadium	500.0000	444.0000	ug/L	-11		20	
Zinc	1000.000	914.0000	ug/L	-9		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901136

Run Name :
Filename : tr212617

Injected : 05-AUG-2003 17:10
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	444600.0	ug/L	-11			
Antimony	500.0000	436.0000	ug/L	-13		20	
Arsenic	500.0000	500.0000	ug/L	0		20	
Barium	500.0000	452.0000	ug/L	-10		20	
Beryllium	500.0000	434.0000	ug/L	-13		20	
Cadmium	1000.000	865.0000	ug/L	-14		20	
Calcium	500000.0	364100.0	ug/L	-27			
Chromium	500.0000	420.0000	ug/L	-16		20	
Cobalt	500.0000	418.0000	ug/L	-16		20	
Copper	500.0000	473.0000	ug/L	-5		20	
Iron	200000.0	161700.0	ug/L	-19			
Lead	1000.000	920.0000	ug/L	-8		20	
Magnesium	500000.0	463700.0	ug/L	-7			
Manganese	500.0000	422.0000	ug/L	-16		20	
Molybdenum	500.0000	426.0000	ug/L	-15		20	
Nickel	1000.000	919.0000	ug/L	-8		20	
Selenium	500.0000	476.0000	ug/L	-5		20	
Silver	1000.000	1060.000	ug/L	6		20	
Thallium	500.0000	432.0000	ug/L	-14		20	
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	438.0000	ug/L	-12		20	
Zinc	1000.000	925.0000	ug/L	-8		20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr212482	CS				05-AUG-2003 07:01	1.0	1.0				1		
002	tr212483	ICV				05-AUG-2003 07:05	1.0	1.0				2		
003	tr212484	ICB				05-AUG-2003 07:10	1.0	1.0				3		
004	tr212485	CRI				05-AUG-2003 07:14	1.0	1.0				4		4:AL=474000
005	tr212486	ICSAB				05-AUG-2003 07:18	1.0	1.0						
006	tr212487	BLANK				05-AUG-2003 07:27	1.0	50.0						
007	tr212488	BS				05-AUG-2003 07:32	1.0	50.0						
008	tr212489	BSD				05-AUG-2003 07:36	1.0	50.0						
009	tr212490	MSS				05-AUG-2003 07:41	1.0	43.29004			4			3:FE=364800
010	tr212491	SER				05-AUG-2003 07:50	5.0	43.29004						
011	tr212492	MS				05-AUG-2003 07:54	1.0	41.66667						3:FE=380300
012	tr212493	MSD				05-AUG-2003 07:58	1.0	40.0			2			3:FE=344800
013	tr212494	PDS				05-AUG-2003 08:02	1.0	43.29004				5	6	3:FE=372300
014	tr212495	CCV				05-AUG-2003 08:10	1.0	1.0				7		
015	tr212496	CCB				05-AUG-2003 08:15	1.0	1.0						
016	tr212497	SAMPLE	166624-002			05-AUG-2003 08:19	1.0	46.51163						1:FE=148800
017	tr212498	SAMPLE	166624-003			05-AUG-2003 08:23	1.0	47.61905						2:FE=257400
018	tr212499	SAMPLE	166624-004			05-AUG-2003 08:27	1.0	42.19409						3:FE=258600
019	tr212500	SAMPLE	166624-005			05-AUG-2003 08:31	1.0	49.75124						2:FE=225500
020	tr212501	SAMPLE	166624-006			05-AUG-2003 08:35	1.0	39.84064			1			4:FE=254100
021	tr212502	SAMPLE	166624-007			05-AUG-2003 08:39	1.0	38.31418						3:FE=253000
022	tr212503	SAMPLE	166624-006			05-AUG-2003 08:43	10.0	39.84064						
023	tr212504	SAMPLE	166624-001			05-AUG-2003 08:47	1.0	49.01961						1:FE=171200
024	tr212505	SAMPLE	166624-008			05-AUG-2003 08:51	1.0	44.05286						2:FE=241700
025	tr212506	SAMPLE	166624-009			05-AUG-2003 08:55	1.0	45.87156						2:FE=188600
026	tr212507	CCV				05-AUG-2003 09:02	1.0	1.0				8		
027	tr212508	CCB				05-AUG-2003 09:12	1.0	1.0						
028	tr212509	SAMPLE	166543-002			05-AUG-2003 09:19	1.0	1.0						
029	tr212510	SAMPLE	166543-004			05-AUG-2003 09:23	1.0	1.0						
030	tr212511	SAMPLE	166543-006			05-AUG-2003 09:26	1.0	1.0						
031	tr212512	SAMPLE	166543-008			05-AUG-2003 09:30	1.0	1.0						
032	tr212513	SAMPLE	166624-012			05-AUG-2003 09:35	1.0	44.44444						2:FE=175100

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SSS286 6=03SSS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Mele Date: 8/1/03
Page 1 of 5

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds	Used	>LR
033	tr212514	SAMPLE	166646-027	83388	Soil	05-AUG-2003 09:40	10.0	43.10345						
034	tr212515	SAMPLE	166624-013	83375	Soil	05-AUG-2003 09:43	1.0	37.31343						2:FE=269100
035	tr212516	SAMPLE	166624-015	83375	Soil	05-AUG-2003 09:47	1.0	41.15226						3:FE=213500
036	tr212517	SAMPLE	166624-014	83375	Soil	05-AUG-2003 09:55	1.0	44.84305						2:FE=198000
037	tr212518	SAMPLE	166624-016	83375	Soil	05-AUG-2003 09:59	1.0	48.78049						2:FE=217600
038	tr212519	CCV				05-AUG-2003 10:06	1.0	1.0					7	
039	tr212520	CCB				05-AUG-2003 10:11	1.0	1.0						
040	tr212521	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:15	1.0	44.84305	1					3:FE=232200
041	tr212522	SAMPLE	166624-018	83375	Soil	05-AUG-2003 10:19	1.0	49.50495						2:FE=186900
042	tr212523	SAMPLE	166624-019	83375	Soil	05-AUG-2003 10:23	1.0	44.64286						2:FE=166700
043	tr212524	SAMPLE	166624-021	83375	Soil	05-AUG-2003 10:27	1.0	41.66667						2:FE=178000
044	tr212525	SAMPLE	166624-023	83375	Soil	05-AUG-2003 10:31	1.0	43.85965						3:FE=355800
045	tr212526	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:35	10.0	44.84305						
046	tr212527	BLANK	QC221217	83412	Water	05-AUG-2003 10:43	1.0	1.0						
047	tr212528	BS	QC221218	83412	Water	05-AUG-2003 10:47	1.0	1.0						
048	tr212529	BSD	QC221219	83412	Water	05-AUG-2003 10:50	1.0	1.0						6
049	tr212530	MSS	166668-007	83412	Water	05-AUG-2003 10:56	1.0	1.0						9
050	tr212531	CCV				05-AUG-2003 11:01	1.0	1.0					8	
051	tr212532	CCB				05-AUG-2003 11:10	1.0	1.0						
052	tr212533	SER	QC221222	83412	Water	05-AUG-2003 11:14	5.0	1.0						
053	tr212534	MS	QC221220	83412	Water	05-AUG-2003 11:18	1.0	1.0						
054	tr212535	MS	QC221220	83412	Water	05-AUG-2003 11:22	1.0	1.0					2	
055	tr212536	MSD	QC221221	83412	Water	05-AUG-2003 11:25	1.0	1.0						
056	tr212537	SAMPLE	166680-001	83412	Water	05-AUG-2003 11:30	1.0	1.0						
057	tr212538	SAMPLE	166680-002	83412	Water	05-AUG-2003 11:33	1.0	1.0						2:CA=154000
058	tr212539	SAMPLE	166681-001	83412	Water	05-AUG-2003 11:37	1.0	1.0						
059	tr212540	SAMPLE	166680-003	83412	Water	05-AUG-2003 11:40	1.0	1.0						2:CA=203100
060	tr212541	SAMPLE	166668-010	83412	Water	05-AUG-2003 11:43	1.0	1.0						
061	tr212542	CCV				05-AUG-2003 11:47	1.0	1.0					7	
062	tr212543	CCB				05-AUG-2003 11:53	1.0	1.0						
063	tr212544	SAMPLE	166673-001	83412	Water	05-AUG-2003 11:57	1.0	1.0						
064	tr212545	SAMPLE	166682-014	83412	Water	05-AUG-2003 12:01	1.0	1.0						

Stds used: 1=03WSI109 2=03WSI149 3=03WSI1263 4=03WSI089 5=03SSS286 6=03SSS287 7=03WSI150 8=03WSI151 9=03WSI152

Analyst: Meiwei

Date: 8/6/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
065	tr212546	BLANK	QC221240	83420	Water	05-AUG-2003 12:04	1.0	1.0					
066	tr212547	BS	QC221241	83420	Water	05-AUG-2003 12:08	1.0	1.0					
067	tr212548	BSD	QC221242	83420	Water	05-AUG-2003 12:11	1.0	1.0					
068	tr212549	MSS	166702-001	83420	Water	05-AUG-2003 12:16	1.0	1.0					
069	tr212550	MS	QC221243	83420	Water	05-AUG-2003 12:19	1.0	1.0					
070	tr212551	MSD	QC221244	83420	Water	05-AUG-2003 12:22	1.0	1.0					
071	tr212552	SAMPLE	166702-010	83420	Water	05-AUG-2003 12:26	1.0	1.0					
072	tr212553	CCV				05-AUG-2003 12:30	1.0	1.0					
073	tr212554	CCB				05-AUG-2003 12:37	1.0	1.0					
074	tr212555	BLANK	QC221255	83422	Soil	05-AUG-2003 12:41	1.0	50.0					
075	tr212556	BS	QC221256	83422	Soil	05-AUG-2003 12:44	1.0	50.0					
076	tr212557	BSD	QC221257	83422	Soil	05-AUG-2003 12:48	1.0	50.0					
077	tr212558	MSS	166645-031	83422	Soil	05-AUG-2003 12:51	1.0	47.61905 1					
078	tr212559	SER	QC221260	83422	Soil	05-AUG-2003 12:55	5.0	47.61905					
079	tr212560	MS	QC221258	83422	Soil	05-AUG-2003 12:59	1.0	44.24779					
080	tr212561	MSD	QC221259	83422	Soil	05-AUG-2003 13:02	1.0	45.66210					
081	tr212562	SAMPLE	166702-002	83422	Soil	05-AUG-2003 13:06	1.0	44.84305					
082	tr212563	SAMPLE	166702-003	83422	Soil	05-AUG-2003 13:09	1.0	47.84689					
083	tr212564	SAMPLE	166702-004	83422	Soil	05-AUG-2003 13:13	1.0	45.45455					
084	tr212565	CCV				05-AUG-2003 13:20	1.0	1.0					
085	tr212566	CCB				05-AUG-2003 13:26	1.0	1.0					
086	tr212567	SAMPLE	166702-005	83422	Soil	05-AUG-2003 13:30	1.0	43.66812					
087	tr212568	SAMPLE	166702-006	83422	Soil	05-AUG-2003 13:34	1.0	44.05286					
088	tr212569	SAMPLE	166702-007	83422	Soil	05-AUG-2003 13:37	1.0	45.87156					
089	tr212570	SAMPLE	166702-008	83422	Soil	05-AUG-2003 13:41	1.0	44.64286					
090	tr212571	SAMPLE	166702-009	83422	Soil	05-AUG-2003 13:44	1.0	48.30918					
091	tr212572	SAMPLE	166702-011	83422	Soil	05-AUG-2003 13:47	1.0	36.23188					
092	tr212573	SAMPLE	166544-004	83173	Water	05-AUG-2003 13:51	1.0	1.0					
093	tr212574	SAMPLE	166544-008	83173	Water	05-AUG-2003 13:55	1.0	1.0					
094	tr212575	BLANK	QC221075	83377	Soil	05-AUG-2003 14:00	1.0	50.0					
095	tr212576	CCV				05-AUG-2003 14:19	1.0	1.0					
096	tr212577	CCB				05-AUG-2003 14:26	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: McV Date: 8/1/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr1212578	BS	QC221076	83377	Soil	05-AUG-2003 14:33	1.0	50.0	1					
098	tr1212579	BSD	QC221077	83377	Soil	05-AUG-2003 14:37	1.0	50.0	1					
099	tr1212580	MSS	166624-032	83377	Soil	05-AUG-2003 14:40	1.0	48.07692	1					1:FE=180100
100	tr1212581	SER	QC221080	83377	Soil	05-AUG-2003 14:44	5.0	48.07692						
101	tr1212582	MS	QC221078	83377	Soil	05-AUG-2003 14:47	1.0	37.87879						3:FE=228500
102	tr1212583	MSD	QC221079	83377	Soil	05-AUG-2003 14:51	1.0	42.19409						2:FE=211000
103	tr1212584	MSS	166624-043	83377	Soil	05-AUG-2003 14:54	1.0	49.75124	3					2:FE=194900
104	tr1212585	MS	QC221081	83377	Soil	05-AUG-2003 14:58	1.0	41.49378						3:FE=256800
105	tr1212586	MSD	QC221082	83377	Soil	05-AUG-2003 15:01	1.0	43.29004						3:FE=229800
106	tr1212587	SAMPLE	166624-024	83377	Soil	05-AUG-2003 15:05	1.0	38.46154						3:FE=490700
107	tr1212588	CCV				05-AUG-2003 15:10	1.0	1.0	1					8
108	tr1212589	CCB				05-AUG-2003 15:14	1.0	1.0						
109	tr1212590	SAMPLE	166624-025	83377	Soil	05-AUG-2003 15:18	1.0	48.78049						2:FE=189800
110	tr1212591	SAMPLE	166624-026	83377	Soil	05-AUG-2003 15:22	1.0	46.51163						2:FE=299600
111	tr1212592	SAMPLE	166624-028	83377	Soil	05-AUG-2003 15:25	1.0	43.29004						2:FE=209800
112	tr1212593	SAMPLE	166624-029	83377	Soil	05-AUG-2003 15:29	1.0	46.72897						1:FE=236600
113	tr1212594	SAMPLE	166624-033	83377	Soil	05-AUG-2003 15:32	1.0	39.06250						2:FE=255800
114	tr1212595	SAMPLE	166624-034	83377	Soil	05-AUG-2003 15:36	1.0	47.84689						2:FE=246000
115	tr1212596	SAMPLE	166624-035	83377	Soil	05-AUG-2003 15:39	1.0	40.81633						3:FE=336900
116	tr1212597	SAMPLE	166624-036	83377	Soil	05-AUG-2003 15:43	1.0	42.91845						2:FE=200500
117	tr1212598	SAMPLE	166624-039	83377	Soil	05-AUG-2003 15:46	1.0	47.39336						1:FE=178900
118	tr1212599	SAMPLE	166624-040	83377	Soil	05-AUG-2003 15:50	1.0	38.16794						3:FE=251700
119	tr1212600	CCV				05-AUG-2003 15:58	1.0	1.0						7
120	tr1212601	CCB				05-AUG-2003 16:02	1.0	1.0						
121	tr1212602	BLANK	QC221303	83433	Soil	05-AUG-2003 16:05	1.0	50.0						
122	tr1212603	BS	QC221304	83433	Soil	05-AUG-2003 16:09	1.0	50.0						
123	tr1212604	BSD	QC221305	83433	Soil	05-AUG-2003 16:12	1.0	50.0						
124	tr1212605	MSS	166624-030	83433	Soil	05-AUG-2003 16:16	1.0	43.47826	1					1:FE=208700
125	tr1212606	SER	QC221308	83433	Soil	05-AUG-2003 16:21	5.0	43.47826	1					
126	tr1212607	MS	QC221306	83433	Soil	05-AUG-2003 16:25	1.0	44.05286						1:FE=236300
127	tr1212608	MSD	QC221307	83433	Soil	05-AUG-2003 16:28	1.0	42.37288						1:FE=239500
128	tr1212609	SAMPLE	166624-031	83433	Soil	05-AUG-2003 16:32	1.0	45.24887						1:FE=148900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SSS286 6=03SSS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: McVick Date: 8/10
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	lenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
129	tr212610	SAMPLE	166618-003		83433	Soil	05-AUG-2003	16:36	1.0	48.54369					2:FE=196000
130	tr212611	CCV					05-AUG-2003	16:44	1.0	1.0			8		
131	tr212612	CCB					05-AUG-2003	16:51	1.0	1.0					
132	tr212613	SAMPLE	166624-042		83377	Soil	05-AUG-2003	16:55	1.0	47.61905					2:FE=208900
133	tr212614	SAMPLE	166624-044		83377	Soil	05-AUG-2003	16:58	1.0	43.10345					2:FE=234700
134	tr212615	SAMPLE	166624-045		83377	Soil	05-AUG-2003	17:01	1.0	49.75124					1:FE=183000
135	tr212616	SAMPLE	166624-046		83377	Soil	05-AUG-2003	17:05	1.0	50.0					2:FE=214700
136	tr212617	ICSAB					05-AUG-2003	17:10	1.0	1.0			4		4:MG=463700
137	tr212618	CCV					05-AUG-2003	17:16	1.0	1.0			8		
138	tr212619	CCB					05-AUG-2003	17:21	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Melvin Date: 8/15

REPORTING SUMMARY FOR 166624 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166624-001	MET07	08/05/03 08:47	1.0		+		+					+	+									+
166624-002	MET07	08/05/03 08:19	1.0		+		+					+	+									+
166624-003	MET07	08/05/03 08:23	1.0		+		+					+	+									+
166624-004	MET07	08/05/03 08:27	1.0		+		+					+	+									+
166624-005	MET07	08/05/03 08:31	1.0		+		+					+	+									+
166624-006	MET07	08/05/03 08:35	1.0		+		+					+										+
166624-006	MET07	08/05/03 08:43	10.0										+									
166624-007	MET07	08/05/03 08:39	1.0		+		+					+	+									+
166624-008	MET07	08/05/03 08:51	1.0		+		+					+	+									+
166624-009	MET07	08/05/03 08:55	1.0		+		+					+	+									+
166624-011	MET07	08/04/03 10:53	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166624-011	MET07	08/04/03 12:40	10.0	+									+									
166624-012	MET07	08/05/03 09:35	1.0		+		+					+	+									+
166624-013	MET07	08/05/03 09:43	1.0		+		+					+	+									+
166624-014	MET07	08/05/03 09:55	1.0		+		+					+	+									+
166624-015	MET07	08/05/03 09:47	1.0		+		+					+	+									+
166624-016	MET07	08/05/03 09:59	1.0		+		+					+	+									+
166624-017	MET07	08/05/03 10:15	1.0		+		+					+										+
166624-017	MET07	08/05/03 10:35	10.0										+									
166624-018	MET07	08/05/03 10:19	1.0		+		+					+	+									+
166624-019	MET07	08/05/03 10:23	1.0		+		+					+	+									+
166624-020	MET07	08/04/03 16:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166624-020	MET07	08/04/03 17:03	10.0										+									
166624-021	MET07	08/05/03 10:27	1.0		+		+					+	+									+
166624-022	MET07	08/04/03 16:21	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166624-022	MET07	08/04/03 17:07	10.0										+									
166624-023	MET07	08/05/03 10:31	1.0		+		+					+	+									+
166624-024	MET07	08/05/03 15:05	1.0		+		+					+	+									+
166624-025	MET07	08/05/03 15:18	1.0		+		+					+	+									+
166624-026	MET07	08/05/03 15:22	1.0		+		+					+	+									+

REPORTING SUMMARY FOR 166624 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
166624-027	MET07	08/05/03 07:41	1.0		+		+					+		+								+
166624-028	MET07	08/05/03 15:25	1.0		+		+					+		+								+
166624-029	MET07	08/05/03 15:29	1.0		+		+					+		+								+
166624-030	MET07	08/05/03 16:16	1.0		+		+					+		+								+
166624-031	MET07	08/05/03 16:32	1.0		+		+					+		+								+
166624-032	MET07	08/05/03 14:40	1.0		+		+					+		+								+
166624-033	MET07	08/05/03 15:32	1.0		+		+					+		+								+
166624-034	MET07	08/05/03 15:36	1.0		+		+					+		+								+
166624-035	MET07	08/05/03 15:39	1.0		+		+					+		+								+
166624-036	MET07	08/05/03 15:43	1.0		+		+					+		+								+
166624-037	MET07	08/04/03 16:24	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166624-037	MET07	08/04/03 17:17	10.0										+									
166624-038	MET07	08/04/03 16:45	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166624-038	MET07	08/04/03 17:21	10.0										+									
166624-039	MET07	08/05/03 15:46	1.0		+		+					+		+								+
166624-040	MET07	08/05/03 15:50	1.0		+		+					+		+								+
166624-041	MET07	08/04/03 16:49	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
166624-041	MET07	08/04/03 17:24	10.0										+									
166624-042	MET07	08/05/03 16:55	1.0		+		+					+		+								+
166624-043	MET07	08/05/03 14:54	1.0		+		+					+		+								+
166624-044	MET07	08/05/03 16:58	1.0		+		+					+		+								+
166624-045	MET07	08/05/03 17:01	1.0		+		+					+		+								+
166624-046	MET07	08/05/03 17:05	1.0		+		+					+		+								+
QC221068	MET07	08/05/03 07:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221069	MET07	08/05/03 07:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221070	MET07	08/05/03 07:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221071	MET07	08/05/03 07:54	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221072	MET07	08/05/03 07:58	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+

REPORTING SUMMARY FOR 166624 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
QC221073	MET07	08/05/03 07:50	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221275	MET07	08/05/03 08:02	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221075	MET07	08/05/03 14:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221076	MET07	08/05/03 14:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221077	MET07	08/05/03 14:37	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221078	MET07	08/05/03 14:47	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221079	MET07	08/05/03 14:51	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221080	MET07	08/05/03 14:44	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221081	MET07	08/05/03 14:58	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221082	MET07	08/05/03 15:01	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221112	MET07	08/04/03 10:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221113	MET07	08/04/03 10:24	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221114	MET07	08/04/03 10:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221115	MET07	08/04/03 11:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221116	MET07	08/04/03 11:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221117	MET07	08/04/03 10:58	5.0		+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221117	MET07	08/04/03 11:02	5.0			+																
QC221117	MET07	08/04/03 12:44	50.0	+									+									
QC221303	MET07	08/05/03 16:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221304	MET07	08/05/03 16:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221305	MET07	08/05/03 16:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221306	MET07	08/05/03 16:25	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221307	MET07	08/05/03 16:28	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221308	MET07	08/05/03 16:21	5.0	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 05-AUG-2003 07:45

Batch Number : 83375
 Date Extracted : 01-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166624-001		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1				BA, CU, PB, SB, ZN	
166624-002		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166624-003		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				BA, CU, PB, SB, ZN	
166624-004		Treadwell & Rollo	Soil	2.37	g	100	42.1940	1				BA, CU, PB, SB, ZN	
166624-005		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166624-006		Treadwell & Rollo	Soil	2.51	g	100	39.8406	1				BA, CU, PB, SB, ZN	
166624-007		Treadwell & Rollo	Soil	2.61	g	100	38.3141	1				BA, CU, PB, SB, ZN	
166624-008		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1				BA, CU, PB, SB, ZN	
166624-009		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
166624-012		Treadwell & Rollo	Soil	2.25	g	100	44.4444	1				BA, CU, PB, SB, ZN	
166624-013		Treadwell & Rollo	Soil	2.68	g	100	37.3134	1				BA, CU, PB, SB, ZN	
166624-014		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
166624-015		Treadwell & Rollo	Soil	2.43	g	100	41.1522	1				BA, CU, PB, SB, ZN	
166624-016		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166624-017		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
166624-018		Treadwell & Rollo	Soil	2.02	g	100	49.5049	1				BA, CU, PB, SB, ZN	
166624-019		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1				BA, CU, PB, SB, ZN	
166624-021		Treadwell & Rollo	Soil	2.4	g	100	41.6666	1				BA, CU, PB, SB, ZN	
166624-023		Treadwell & Rollo	Soil	2.28	g	100	43.8596	1				BA, CU, PB, SB, ZN	
166624-027		Treadwell & Rollo	Soil	2.31	g	100	43.2900	1				BA, CU, PB, SB, ZN	
QC221068	BLANK		Soil	2	g	100	50	1				ICAP	mss
QC221069	BS		Soil	2	g	100	50	1				ICAP	
QC221070	BSD		Soil	2	g	100	50	1				ICAP	
QC221071	MS	of 166624-027	Soil	2.4	g	100	41.6666	1				ICAP	
QC221072	MSD	of 166624-027	Soil	2.5	g	100	40	1				ICAP	
QC221073	SER	of 166624-027	Soil	2.31	g	100	43.2900	1				ICAP	
QC221275	PDS	of 166624-027	Soil	2.31	g	100	43.2900	1				ICAP	

Prep Chemist: *[Signature]*
 Relinquished By: *[Signature]*

Reviewed By: *[Signature]* Date: 8/5/03
 Received By: *[Signature]* Date: 8/5/03

08/01/03

B# 83375

ICAP 13050

Sample	Sample mass (g)	Final Vol (ml)	Filtered yes/no
BK QC 221068	0	100.0	yes
*15 221069	↓		
*150 221070	↓		
*166624-024 MS A	240		
* 027 MS	250		
- 001	204		
- 002	215		
- 003	210		
- 004	237		
- 005	201		
- 006	251		
- 007	261		
- 008	227		
- 009	218		
- 012	225		
- 013	268		
- 014	223		
- 015	243		
- 016	205		
- 017	223		
- 018	202		
- 019	224		
- 021	240		
- 023	228		
MS - 027	231		

CommentsSpikes

*0355280 (1.0ml)

*0355287 ↓

Reagents

1:1 HNO3 Y08024-072303

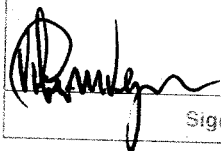
H2O3 Y05050 - JTBaker

H2O2 H2295317 - VWR

1:1 HCL Y12028-072303

VV 8/01/03

Continued on Page



Signed

08/01/03

Date

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Read and Understood By

Patricia Virgen

Signed

08/03/03

Date

Curtis & Tompkins Laboratories Sample Preparation Summary

01-AUG-2003 16:02

Batch Number : 83377
 Date Extracted: 01-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : 9
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Init Units	Final Vol	Prep D.F.	Clean pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166624-024		Treadwell & Rollo	Soil	2.6	g	100	38.4615	1				BA, CU, PB, SB, ZN	
166624-025		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166624-026		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166624-028		Treadwell & Rollo	Soil	2.31	g	100	43.2900	1				BA, CU, PB, SB, ZN	
166624-029		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1				BA, CU, PB, SB, ZN	
166624-032		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN	
166624-033		Treadwell & Rollo	Soil	2.56	g	100	39.0625	1				BA, CU, PB, SB, ZN	
166624-034		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166624-035		Treadwell & Rollo	Soil	2.45	g	100	40.8163	1				BA, CU, PB, SB, ZN	
166624-036		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	
166624-039		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166624-040		Treadwell & Rollo	Soil	2.62	g	100	38.1679	1				BA, CU, PB, SB, ZN	
166624-042		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				BA, CU, PB, SB, ZN	
166624-043		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166624-044		Treadwell & Rollo	Soil	2.32	g	100	43.1034	1				BA, CU, PB, SB, ZN	
166624-045		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166624-046		Treadwell & Rollo	Soil	2	g	100	50	1				BA, CU, PB, SB, ZN	
QC221075	BLANK		Soil	2	g	100	50	1				ICAP	
QC221076	BS		Soil	2	g	100	50	1	1	1	1	ICAP	
QC221077	BSD		Soil	2	g	100	50	1	1	1	1	ICAP	
QC221078	MS	of 166624-032	Soil	2.64	g	100	37.8787	1	1	1	1	ICAP	
QC221079	MSD	of 166624-032	Soil	2.37	g	100	42.1940	1	1	1	1	ICAP	
QC221080	SER	of 166624-032	Soil	2.08	g	100	48.0769	1	1	1	1	ICAP	
QC221081	MS	of 166624-043	Soil	2.41	g	100	41.4937	1	1	1	1	ICAP	
QC221082	MSD	of 166624-043	Soil	2.31	g	100	43.2900	1	1	1	1	ICAP	
QC221083	SER	of 166624-043	Soil	2.01	g	100	49.7512	1	1	1	1	ICAP	

Prep Chemist: mw Date: 8/15/03
 Relinquished By: mw Date: 8/15/03

08/01/03

BH 83377

ICAP/3050

Sample	Sample mass (g)	Final Vol (ml)	Filtered yes/no	Comments
		100.0	yes	
BK QC 221075	0			Spikes
* BS1 221076				*03SS286 (1.0ml)
* BS2 221077				*03SS287 ↓
* 166024-032 ms	2.44			
* 032 ms	2.37			
* 043 ms	2.41			
* 073 ms	2.31			
024	2.60			
025	2.05			
026	2.15			
028	2.31			
029	2.14			
ms 032	2.08			
033	2.56			
034	2.09			
035	2.45			
036	2.33			
039	2.11			
040	2.62			
042	2.10			
ms 043	2.01			
044	2.32			
045	2.01			
046	2.00			

Reagents lot num #
 1.1HNO3 Y08524-072303
 HNO3 Y05050 JTBaker
 H2O2 42295317-VWR
 1.1HCl Y12028-022303

8/1/03

P. M. Veyana
 Signed

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Read and Understood By:

Patricia Veyana

08/03/03

Continued on Page

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc							Lowest RL	units	Flags
	1	2	3	4	5	6	7	MDL		
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0 mg/Kg u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15 mg/Kg u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25 mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83349
Date: 08/01/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166624-001	15.5094	21.9647	21.8386	98	2
166624-002	15.2922	21.6333	21.5252	98	2
166624-003	15.4601	22.2062	21.9026	95	5
166624-004	15.3331	21.9372	21.7879	98	2
166624-005	16.1075	21.3980	21.0969	94	6
166624-006	15.3553	21.2334	21.0388	97	3
166624-007	15.0628	21.6126	21.4362	97	3
166624-008	15.8278	21.1488	21.0382	98	2
166624-009	10.9652	17.2170	17.0730	98	2
166624-011	11.5249	17.5311	17.4029	98	2
166624-012	15.4503	21.9586	21.8382	98	2
166624-013	11.2126	18.3771	18.1768	97	3
166624-014	11.2196	17.3509	17.2057	98	2
166624-015	15.3578	21.6764	21.5495	98	2
166624-016	15.3264	21.3619	21.0408	95	5
166624-017	15.6258	21.2004	20.9870	96	4
166624-018	15.5893	22.3626	22.1337	97	3
166624-019	15.3737	21.2835	21.1059	97	3
166624-020	10.9929	16.4671	16.3417	98	2
166624-021	15.9939	21.4985	21.3385	97	3
QC220979	15.3185	22.1342	22.0074	98	2
of 166624-001			RPD:	0.1%	4.9%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83349
 Date Started: 01-AUG-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166624-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-002		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-003		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-004		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-005		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-006		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-007		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-008		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-009		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-011		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-012		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-013		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-014		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-015		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-016		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-017		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-018		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-019		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-020		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-021		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
QC220979	SDUP	of 166624-001	Soil	MOISTURE	

7/31/03

83349

Sample	dish#	tare wt	init wt	fin wt	comment
Blank	11B	4.2257	-	4.2253	
160624-1	141	15.5094	21.9647	21.8386	
-1 Dup	30	15.3185	22.1342	22.0074	
-2	1971	15.2922	21.6333	21.5252	
-3	19	15.4601	22.2062	21.9026	
-4	7X	15.3331	21.9372	21.7879	
-5	4D	16.1075	21.3980	21.0969	
-6	9A	15.3553	21.2334	21.0388	
-7	3B	15.0628	21.6126	21.4362	
-8	11D	15.8278	21.1488	21.0382	
-9	JED	10.9652	17.2170	17.0730	
-11	+	11.5249	17.5311	17.4029	
-12	38	15.4503	21.9586	21.8382	
-13	IV	11.2126	18.3771	18.1708	
-14	XII	11.2196	17.3509	17.2057	
-15	7CD	15.3578	21.6764	21.5495	
-16	17C	15.3264	21.3619	21.0408	
-17	6D	15.6258	21.2004	20.9870	
-18	8X	15.5893	22.3626	22.1337	
-19	11A	15.3737	21.2835	21.1059	
-20	12A	10.9929	16.4671	16.3417	
-21	16D	15.9939	21.4985	21.3385	

Oven temp: 104°C

time in: 4:20 pm

time out: 10:30 am on: 8/1/03

Continued on Page

Read and Understood By

L. D. Schumacher

Signed

7/31/03

Date

184

R. Manning

Signed

8/1/03

Date

Percent Moisture Summary Report

Batch: 83350
Date: 08/01/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166624-022	15.7226	22.3064	22.1308	97	3
166624-023	15.1947	21.7485	21.2592	93	7
166624-024	15.0708	22.8903	22.1367	90	10
166624-025	11.0843	17.8056	17.3495	93	7
166624-026	15.1368	21.3039	20.6678	90	10
166624-027	15.4035	24.6280	23.6012	89	11
166624-028	15.5734	21.6624	21.1184	91	9
166624-029	16.0011	22.8379	22.6005	97	3
166624-030	11.1915	18.1361	17.9030	97	3
166624-031	16.0253	24.4892	24.1535	96	4
166624-032	15.8233	22.3326	22.0692	96	4
166624-033	15.3783	21.5624	21.3013	96	4
166624-034	15.4437	22.1187	21.7994	95	5
166624-035	10.9704	16.8696	16.4424	93	7
166624-036	15.7862	22.1085	21.9061	97	3
166624-037	15.9672	21.3812	21.2151	97	3
166624-038	15.7821	21.8406	21.4027	93	7
166624-039	15.0653	21.5207	21.2081	95	5
166624-040	15.4200	21.2983	21.0443	96	4
166624-041	11.0604	17.8392	17.5452	96	4
QC220980	15.8376	22.7271	22.5374	97	3
of 166624-022			RPD:	0.1%	3.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83350
 Date Started: 01-AUG-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166624-022		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-023		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-024		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-025		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-026		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-027		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-028		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-029		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-030		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-031		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-032		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-033		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-034		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-035		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-036		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-037		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-038		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-039		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-040		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-041		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
QC220980	SDUP	of 166624-022	Soil	MOISTURE	

7/31/03

83350

Sample	Dish#	tare wt	init wt	fin wt	comment
Blank	100	4.3219	-	4.3221	
11.0.024-22	4	15.7226	22.3064	22.1308	
-22 DUP	15D	15.8376	22.7271	22.5374	
-23	FA	15.1947	21.7485	21.2592	
-24	112C	15.0708	22.8903	22.1367	
-25	JP	11.0843	17.8056	17.3495	
-26	2C	15.1368	21.3039	20.6678	
-27	5A	15.4035	24.6280	23.6012	
-28	5X	15.5734	21.6624	21.1184	
-29	7D	16.0011	22.8379	22.6005	
-30	XE	11.1915	18.1361	17.9030	
-31	12D	16.0253	24.4892	24.1535	
-32	13D	15.8233	22.3326	22.0692	
-33	Ø	15.3783	21.5624	21.3013	
-34	21X	15.4437	22.1187	21.7994	
-35	2AX	10.9704	16.8696	16.4424	
-36	17A	15.7862	22.1085	21.9061	
-37	5D	15.9672	21.3812	21.2151	
-38	3X	15.7821	21.8406	21.4027	
-39	10B	15.0653	21.5207	21.2081	
-40	12	15.4200	21.2983	21.0443	
-41	18	11.0004	17.8392	17.5452	

Oven temp: 104°C

time in: 4:50pm

time out: 10:00am on: 8/1/03

J. Dutcher

7/31/03

187

R. Manning

8/1/03

Percent Moisture Summary Report

Batch: 83351
Date: 08/01/03
Method: CLP SOW 390
Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166624-042	15.1359	21.2972	21.0503	96	4
166624-043	11.0525	16.0505	15.8193	95	5
166624-044	11.3313	17.8840	17.5174	94	6
166624-045	15.7799	22.1533	21.7971	94	6
166624-046	15.3748	22.6447	22.1101	93	7
166634-001	15.8311	22.2021	21.9294	96	4
166634-002	10.9407	16.6146	16.4826	98	2
166634-003	14.7156	20.1593	20.0658	98	2
166635-001	11.1237	17.7900	16.3010	78	22
166635-002	15.2755	23.5983	22.3711	85	15
166639-001	15.8172	23.1008	23.0864	100	0
166639-002	15.9783	21.5369	21.5198	100	0
QC220981	15.3365	21.7649	21.6477	98	2
of 166634-003			RPD:	0.1%	6.0%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83351
 Date Started: 01-AUG-2003
 Batched by : Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166624-042		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-043		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-044		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-045		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166624-046		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2003
166634-001		Innovative Technic	Soil	MOISTURE	01-AUG-2003
166634-002		Innovative Technic	Soil	MOISTURE	01-AUG-2003
166634-003		Innovative Technic	Soil	MOISTURE	01-AUG-2003
166635-001		EM Assist CESPK-PM	Soil	MOISTURE	07-AUG-2003
166635-002		EM Assist CESPK-PM	Soil	MOISTURE	07-AUG-2003
166639-001		Innovative Technic	Soil	MOISTURE	01-AUG-2003
166639-002		Innovative Technic	Soil	MOISTURE	01-AUG-2003
QC220981	SDUP	of 166634-003	Soil	MOISTURE	

7/31/03

83351

sample	dish#	tare wt	init wt	fin wt	comment
Blank	yx	4.2172	-	4.2160	
1166624-42	3C	15.1359	21.2972	21.0503	
-43	ABC	11.0525	16.0505	15.8193	
-44	VII	11.3313	17.8840	17.5174	
-45	XIIA	15.7799	22.1533	21.7971	
-46	4C	15.3748	22.6447	22.1101	
1166634-1	24D	15.8311	22.2021	21.9294	
-2	12C	10.9407	16.6146	16.4826	
-3	4A	14.7156	20.1593	20.0658	
-3DUP	15C	15.3365	21.7649	21.6477	
1166635-1	III	11.1237	17.7900	16.3010	
-2	113A	15.2755	23.5938	22.3711	
1166639-1	LOU	15.8172	23.1008	23.0864	
-2	3D	15.9783	21.5368	21.5198	

Oven temp: 104°C

time in: 6:30 pm

time out: 9:50 am on 8/1/03

Continued on Page

Read and Understood

L. Dutcher

Signed

7/31/03

Date

190

R. Stumpf

Signed

8/1/03

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166645

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
CHPSB03 [2]	166645-001	LCBSB17 [0.3]	166645-019
DUP073003B	166645-002	LCBSB17 [1]	166645-020
DUP073003C	166645-003	LCBSB36 [0.3]	166645-021
LCBSB41 [1]	166645-004	LCBSB36 [1]	166645-022
LCBSB41 [0.3]	166645-005	DUP073103A	166645-023
LCBSB41 [0.3] RB [1]	166645-006	LCBSB38 [0.3]	166645-024
LCBSB39 [0.3]	166645-007	LCBSB38 [1] [MSD]	166645-025
LCBSB39 [1] [MSD]	166645-008	LCBSB34 [0.3]	166645-026
LCBSB42 [0.3]	166645-009	LCBSB34 [1]	166645-027
LCBSB42 [1]	166645-010	LCBSB30 [0.3]	166645-028
LCBSB40 [0.3]	166645-011	LCBSB30 [1]	166645-029
LCBSB40 [1]	166645-012	DUP073103B	166645-030
LCBSB20 [1]	166645-013	LCBSB26 [1] [MSD]	166645-031
LCBSB20 [2] [MSD]	166645-014	LCBSB26 [2]	166645-032
DUP073003D	166645-015	DUP073103C	166645-033
DUP073003E	166645-016	LCBSB25 [1]	166645-034
LCBSB18 [1]	166645-017	LCBSB25 [2]	166645-035
LCBSB18 [2]	166645-018		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/13/03

Signature: _____

Project Manager

Date: _____

8/12/03

Laboratory Number: **166645**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **07/31/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and thirty-four soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample LCBSB38 [1] [MSD] (166645-025) for iron were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries of sample LCBSB38 [1] [MSD] for antimony, magnesium, and manganese, of sample LCBSB39 [1] [MSD] (166645-008) for antimony and lead, of sample LCBSB20 [2] [MSD] (166645-014) for antimony, and of sample LCBSB26 [1] [MSD] (166645-031) for antimony and zinc were outside acceptance limits. The matrix spike duplicate relative percent difference (RPD) of sample LCBSB39 [1] [MSD] for lead was also outside acceptance limits. The associated blank spike recoveries and blank spike duplicate RPDs were acceptable for all target elements.

The serial dilution sample analyzed on 8/5/03 at 17:44 was outside acceptance limits for antimony, arsenic, and silver.

The %D of the continuing calibration standards (CCSs) tr212629, tr212642, and tr212654 were above acceptance limits for antimony and silver, and the %D of the CCSs tr212666 and tr212679 were above acceptance limits for antimony. The elements were not detected in the samples reported that were bracketed by these standards, therefore, there is no affect on the quality of the sample results.

The %D of the interference check standard AB (ICSAB) tr212699 was outside acceptance limits. No cadmium results were reported in the samples bracketed by this standard. No other analytical problems were encountered.

Chain of Custody

166645

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Page 1 of 3

Site Name:

Job Number:

Project Manager/Contact:

Samplers:

Recorder (Signature Required):

Residio Firing Ranges
2893-07

Deirdra Shipman
RRP/035
Richard Richard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice				Other
CHPS50527	7/30/03	1015		X							1			5 Metals + 19 Metals
D10730036	7/30/03	1018		X							1			List per project setup.
D10730036	7/30/03	1402		X							1			
LCB534161	7/30/03	1400		X							1			
LCB534163	7/30/03	1355		X							1			
LCB534163	7/30/03	1355		X							1			
LCB534163	7/30/03	1430		X							1			
LCB534163	7/30/03	1432		X							1			
LCB534163	7/30/03	1451		X							1			
LCB534163	7/30/03	1451		X							1			
LCB534163	7/30/03	1457		X							1			
LCB534163	7/30/03	1511		X							1			
LCB534163	7/30/03	1513		X							1			

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by Lab: (Signature)

Date

Time

Sent to Laboratory (Name):

CT1

Laboratory Comments/Notes:

Method of Shipment

☒ Lab courier

☐ Fed Ex

☐ Airborne

☐ UPS

☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 002838

rec'd intact incl

166645

Treadwell & Rollo

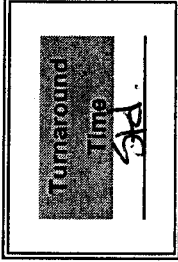
Environmental and Geotechnical Consultant

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Page 2 of 2

Site Name: Presidio Firing Range
 Job Number: 2893-07
 Project Manager/Contact: Donna Shipman
 Samplers: OS's RRE
 Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative					No. Containers	Analysis Requested	Hold	Remarks	
				Soil	Water	Other	HCL	H ₂ SO ₄					HNO ₃
-13 LCBSB20C1	7/30/03	1529		X					1			5 Metals 4-19 Metals list per project set-up.	
-14 LCBSB20C2	7/30/03	1534		X					1				
-15 DVP0730030	7/30/03	1526		X					1				
-16 DVP073003E	7/30/03	1540		X					1				
-17 LCBSB18C1	7/30/03	1545		X					1				
-18 LCBSB18C2	7/30/03	1547		X					1				
-19 LCBSB17C3	7/31/03	0830		X					1				
-20 LCBSB17C1	7/31/03	0833		X					1				
-21 LCBSB36C03	7/31/03	0858		X					1				
-22 LCBSB36C1	7/31/03	0900		X					1				
-23 DVP073103A	7/31/03	0908		X					1				
-24 LCBSB38C03	7/31/03	0925		X					1				
-25 LCBSB38C1	7/31/03	0935		X					1				
Relinquished by: (Signature) <u>[Signature]</u>				Date	7-31-03	Time	1133	Received by: (Signature) <u>[Signature]</u> Date 7/31/03 Time 11:33					
Relinquished by: (Signature)				Date		Time		Received by: (Signature) Date Time					
Relinquished by: (Signature)				Date		Time		Received by Lab: (Signature) Date Time					
Sent to Laboratory (Name): <u>CR</u> Laboratory Comments/Notes:													

COC Number: 001266

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

need intact in case

CHAIN OF CUSTODY RECORD

Page 3 of 3

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501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Desido - firing range
Job Number: 2893.07

Job Number: 2893.07

Project Manager/Contact: Dwinda Shickman

Samplers: ASPR

Recorder (Signature Required): [Signature]

Turnaround Time std

[illegible]

COC Number: 002837

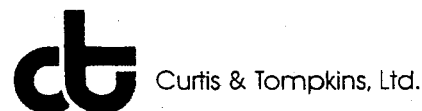
Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

rec'd intact incl

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

Login#: 166645 Date Received: 7-31-03 Number of Coolers: 1
Client: Treadwell & Rolla Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 7-31-03 By (print): Tray Windsor (sign) Tray E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____ N/A

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: wet Temperature: 4.0

B. Login Phase

Date Logged In: 7-31-03 By (print): Tray Windsor (sign) Tray E. Windsor

1. Describe type of packing in cooler: In ziploc bags

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO N/A

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB41[0.3]RB[1]	Sampled:	07/30/03
Matrix:	Water	Received:	07/31/03
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03
Batch#:	83380		

Type: SAMPLE Lab ID: 166645-006

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC221090

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83380
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03

Type: BS Lab ID: QC221091

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	537.0	107	80-120
Barium	2,000	1,970	99	80-120
Copper	250.0	243.0	97	80-120
Lead	100.0	97.80	98	80-120
Zinc	500.0	483.0	97	80-120

Type: BSD Lab ID: QC221092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	568.0	114	80-120	6	20
Barium	2,000	1,950	98	80-120	1	20
Copper	250.0	241.0	96	80-120	1	20
Lead	100.0	96.40	96	80-120	1	20
Zinc	500.0	480.0	96	80-120	1	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	CHPSB07[1]RB[2]	Batch#:	83380
MSS Lab ID:	166624-010	Sampled:	07/29/03
Matrix:	Water	Received:	07/30/03
Units:	ug/L	Prepared:	08/01/03
Diln Fac:	1.000	Analyzed:	08/04/03

Type: MS

Lab ID: QC221093

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	516.0	103	75-125
Barium	<0.4200	2,000	1,910	96	75-125
Copper	7.400	250.0	241.0	93	75-125
Lead	<1.300	100.0	96.10	96	75-125
Zinc	5.050	500.0	474.0	94	75-125

Type: MSD

Lab ID: QC221094

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	502.0	100	75-125	3	20
Barium	2,000	1,850	93	75-125	3	20
Copper	250.0	233.0	90	75-125	3	20
Lead	100.0	93.50	94	75-125	3	20
Zinc	500.0	463.0	92	75-125	2	20

Method: 6010B Standard: blank

Run Time: 08/04/03 06:50:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.000	-.000	-.000	-.092	.001	.000
SDev	.000	.000	.000	.000	.000	.000	.000
%RSD	3.07	16.5	18.7	8110.	.020	33.5	24.9
#1	-.001	.000	-.000	.000	-.092	.001	.000
#2	-.001	.001	-.000	-.000	-.092	.001	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	-.002	.001	.000	.000	-.000	-.002
SDev	.000	.000	.000	.001	.000	.000	.000
%RSD	12.6	10.3	55.7	2280.	153.	8370.	12.9
#1	-.000	-.003	.001	.001	.000	.000	-.002
#2	-.000	-.002	.000	-.001	-.000	-.000	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.001	-.000	-.001	.000	.005	.0263	-.0062
SDev	.001	.000	.000	.000	.000	.0002	.0000
%RSD	52.2	1040.	10.4	97.9	.084	.7541	.3132
#1	.002	.000	-.001	.000	.005	.0262	-.0062
#2	.001	-.000	-.001	.000	.005	.0265	-.0062
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0006	.0001	.000	.059			
SDev	.0001	.0000	.000	.000			
%RSD	16.43	56.63	19.1	.349			
#1	-.0007	.0000	.000	.059			
#2	-.0006	.0001	.000	.059			

Method: 6010B Standard: cst hi
Run Time: 08/04/03 06:55:50

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.151	.087	.035	5.43	.647	.210	.053
SDev	.007	.003	.000	.00	.001	.001	.000
%RSD	4.35	3.54	.014	.048	.208	.606	.213
#1	.146	.085	.035	5.43	.646	.209	.053
#2	.155	.089	.035	5.43	.648	.211	.053
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.141	.132	.157	.152	.271	.362	.036
SDev	.000	.001	.001	.001	.000	.000	.000
%RSD	.104	.420	.626	.815	.049	.100	.034
#1	.141	.132	.157	.153	.271	.362	.036
#2	.141	.132	.156	.151	.271	.362	.036
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.044	.052	.025	.210	.031	.0548	.0670
SDev	.001	.000	.000	.000	.000	.0002	.0001
%RSD	1.99	.043	.362	.011	.093	.3834	.1279
#1	.044	.052	.025	.210	.031	.0550	.0670
#2	.045	.052	.025	.210	.031	.0547	.0671
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.0266	.0397	.230	2.02			
SDev	.0000	.0001	.000	.00			
%RSD	.1409	.1224	.134	.068			
#1	.0267	.0397	.230	2.02			
#2	.0266	.0397	.230	2.02			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	6575.28	4.71201	08/04/03 06:55:50
Sb206A	206.832	Multiple	Standards	11305.7	-5.16161	08/04/03 06:55:50
As1890	189.042	Multiple	Standards	14066.3	3.95774	08/04/03 06:55:50
Ba4934	493.409	Multiple	Standards	184.120	.001006	08/04/03 06:55:50
Be3130	313.042	Multiple	Standards	130.744	12.0423	08/04/03 06:55:50
Cd2265	226.502	Multiple	Standards	477.528	-.471547	08/04/03 06:55:50
Cr2677	267.716	Multiple	Standards	3808.32	-.687286	08/04/03 06:55:50
Co2286	228.616	Multiple	Standards	3539.63	1.48445	08/04/03 06:55:50
Cu3247	324.754	Multiple	Standards	1487.47	3.57020	08/04/03 06:55:50
Pb2203	220.351	Multiple	Standards	3205.10	-1.85416	08/04/03 06:55:50
Pb220A	220.352	Multiple	Standards	3258.94	-.137305	08/04/03 06:55:50
Mo2020	202.030	Multiple	Standards	3688.05	-.489180	08/04/03 06:55:50
Ni2316	231.604	Multiple	Standards	1379.10	.007541	08/04/03 06:55:50
Se1960	196.021	Multiple	Standards	13137.2	26.8501	08/04/03 06:55:50
Se196A	196.022	Multiple	Standards	11595.6	-16.0011	08/04/03 06:55:50
Ag3280	328.068	Multiple	Standards	1904.75	.050741	08/04/03 06:55:50
Tl1908	190.864	Multiple	Standards	19746.6	15.6180	08/04/03 06:55:50
V_2924	292.402	Multiple	Standards	2384.85	-.493561	08/04/03 06:55:50
Zn2138	213.856	Multiple	Standards	3981.63	-19.4240	08/04/03 06:55:50
Al3082	308.215	Multiple	Standards	35526.8	-935.411	08/04/03 06:55:50
Ca3179	317.933	Multiple	Standards	27324.1	168.545	08/04/03 06:55:50
Fe2714	271.441	Multiple	Standards	38243.2	24.3598	08/04/03 06:55:50
Mg2790	279.079	Multiple	Standards	50420.6	-2.67705	08/04/03 06:55:50
Mn2576	257.610	Multiple	Standards	435.853	-.155027	08/04/03 06:55:50
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/04/03 06:55:50
Ti3349	334.941	Multiple	Standards	510.969	-30.2761	08/04/03 06:55:50

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459002

Run Name :
Filename : tr212301

Injected : 04-AUG-2003 07:05
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	997.0000	ug/L	0		5	
Antimony	1000.000	1010.000	ug/L	1		5	
Arsenic	500.0000	494.0000	ug/L	-1		5	
Barium	1000.000	994.0000	ug/L	-1		5	
Beryllium	100.0000	102.0000	ug/L	2		5	
Cadmium	100.0000	102.0000	ug/L	2		5	
Calcium	2000.000	2042.000	ug/L	2		5	
Chromium	200.0000	203.0000	ug/L	2		5	
Cobalt	500.0000	508.0000	ug/L	2		5	
Copper	200.0000	200.0000	ug/L	0		5	
Iron	1000.000	1013.000	ug/L	1		5	
Lead	500.0000	505.0000	ug/L	1		5	
Magnesium	2000.000	2028.000	ug/L	1		5	
Manganese	100.0000	101.0000	ug/L	1		5	
Molybdenum	1000.000	1010.000	ug/L	1		5	
Nickel	500.0000	507.0000	ug/L	1		5	
Selenium	500.0000	507.0000	ug/L	1		5	
Silver	100.0000	100.0000	ug/L	0		5	
Thallium	500.0000	501.0000	ug/L	0		5	
Titanium	1000.000	1000.000	ug/L	0		5	
Vanadium	500.0000	504.0000	ug/L	1		5	
Zinc	100.0000	102.0000	ug/L	2		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459003

Run Name :
Filename : tr212303

Injected : 04-AUG-2003 07:28
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	481.6000	ug/L	-4	10	
Antimony	500.0000	512.0000	ug/L	2	10	
Arsenic	250.0000	257.0000	ug/L	3	10	
Barium	500.0000	480.0000	ug/L	-4	10	
Beryllium	50.00000	51.80000	ug/L	4	10	
Cadmium	50.00000	49.50000	ug/L	-1	10	
Calcium	1000.000	1011.000	ug/L	1	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	251.0000	ug/L	0	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	497.9000	ug/L	0	10	
Lead	250.0000	248.0000	ug/L	-1	10	
Magnesium	1000.000	1031.000	ug/L	3	10	
Manganese	50.00000	49.70000	ug/L	-1	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	254.0000	ug/L	2	10	
Selenium	250.0000	245.0000	ug/L	-2	10	
Silver	50.00000	48.80000	ug/L	-2	10	
Thallium	250.0000	241.0000	ug/L	-4	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	51.00000	ug/L	2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459005

Run Name :
Filename : tr212305

Injected : 04-AUG-2003 07:56
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	90.73000	ug/L	-9	50	
Antimony	60.00000	73.70000	ug/L	23	50	
Arsenic	5.000000	3.070000	ug/L	-39	50	
Barium	10.00000	9.440000	ug/L	-6	50	
Beryllium	2.000000	1.710000	ug/L	-15	50	
Cadmium	5.000000	4.690000	ug/L	-6	50	
Chromium	10.00000	9.310000	ug/L	-7	50	
Cobalt	20.00000	19.40000	ug/L	-3	50	
Copper	10.00000	9.790000	ug/L	-2	50	
Iron	100.0000	95.50000	ug/L	-5	50	
Lead	3.000000	1.770000	ug/L	-41	50	
Manganese	10.00000	9.650000	ug/L	-4	50	
Molybdenum	20.00000	19.00000	ug/L	-5	50	
Nickel	20.00000	19.90000	ug/L	-1	50	
Selenium	5.000000	4.440000	ug/L	-11	50	
Silver	5.000000	4.480000	ug/L	-10	50	
Thallium	5.000000	3.170000	ug/L	-37	50	
Vanadium	10.00000	9.570000	ug/L	-4	50	
Zinc	20.00000	21.40000	ug/L	7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459015

Run Name :
Filename : tr212315

Injected : 04-AUG-2003 08:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	475.4000	ug/L	-5	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	466.0000	ug/L	-7	10	
Beryllium		50.00000	51.70000	ug/L	3	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	98.50000	ug/L	-2	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	98.20000	ug/L	-2	10	
Iron		500.0000	526.5000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1015.000	ug/L	2	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	47.80000	ug/L	-4	10	
Thallium		250.0000	241.0000	ug/L	-4	10	
Titanium		500.0000	492.0000	ug/L	-2	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459027

Run Name :
Filename : tr212327

Injected : 04-AUG-2003 09:39
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	474.5000	ug/L	-5	10	
Antimony		500.0000	488.0000	ug/L	-2	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	467.0000	ug/L	-7	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	986.9000	ug/L	-1	10	
Chromium		100.0000	97.60000	ug/L	-2	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	97.10000	ug/L	-3	10	
Iron		500.0000	504.6000	ug/L	1	10	
Lead		250.0000	244.0000	ug/L	-2	10	
Magnesium		1000.000	1004.000	ug/L	0	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	476.0000	ug/L	-5	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459039

Run Name :
Filename : tr212339

Injected : 04-AUG-2003 10:40
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	731.6000	ug/L	-2		10	
Antimony		750.0000	767.0000	ug/L	2		10	
Arsenic		375.0000	381.0000	ug/L	2		10	
Barium		750.0000	735.0000	ug/L	-2		10	
Beryllium		75.00000	76.10000	ug/L	1		10	
Cadmium		75.00000	72.60000	ug/L	-3		10	
Calcium		1500.000	1475.000	ug/L	-2		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	369.0000	ug/L	-2		10	
Copper		150.0000	153.0000	ug/L	2		10	
Iron		750.0000	731.6000	ug/L	-2		10	
Lead		375.0000	359.0000	ug/L	-4		10	
Magnesium		1500.000	1503.000	ug/L	0		10	
Manganese		75.00000	73.40000	ug/L	-2		10	
Molybdenum		750.0000	721.0000	ug/L	-4		10	
Nickel		375.0000	376.0000	ug/L	0		10	
Selenium		375.0000	360.0000	ug/L	-4		10	
Silver		75.00000	70.30000	ug/L	-6		10	
Thallium		375.0000	358.0000	ug/L	-5		10	
Titanium		750.0000	747.0000	ug/L	0		10	
Vanadium		375.0000	369.0000	ug/L	-2		10	
Zinc		75.00000	73.60000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459049

Run Name :
Filename : tr212349

Injected : 04-AUG-2003 12:24
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.4000	ug/L	-2	10	
Antimony		500.0000	532.0000	ug/L	6	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	50.80000	ug/L	2	10	
Cadmium		50.00000	48.80000	ug/L	-2	10	
Calcium		1000.000	989.9000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	492.2000	ug/L	-2	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	49.40000	ug/L	-1	10	
Molybdenum		500.0000	498.0000	ug/L	0	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459059

Run Name :
Filename : tr212359

Injected : 04-AUG-2003 13:20
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	724.7000	ug/L	-3	10	
Antimony		750.0000	736.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	76.80000	ug/L	2	10	
Cadmium		75.00000	76.00000	ug/L	1	10	
Calcium		1500.000	1455.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	735.3000	ug/L	-2	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1527.000	ug/L	2	10	
Manganese		75.00000	72.40000	ug/L	-3	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	384.0000	ug/L	2	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	71.00000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	750.0000	ug/L	0	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	74.50000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459071

Run Name :
Filename : tr212371

Injected : 04-AUG-2003 14:09
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	499.8000	ug/L	0	10	
Antimony		500.0000	461.0000	ug/L	-8	10	
Arsenic		250.0000	264.0000	ug/L	6	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	51.30000	ug/L	3	10	
Calcium		1000.000	959.4000	ug/L	-4	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	97.30000	ug/L	-3	10	
Iron		500.0000	531.5000	ug/L	6	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1020.000	ug/L	2	10	
Manganese		50.00000	48.50000	ug/L	-3	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	253.0000	ug/L	1	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	504.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	48.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459084

Run Name :
Filename : tr212384

Injected : 04-AUG-2003 15:02
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	766.7000	ug/L	2	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	77.40000	ug/L	3	10	
Cadmium		75.00000	73.80000	ug/L	-2	10	
Calcium		1500.000	1497.000	ug/L	0	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	791.5000	ug/L	6	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1524.000	ug/L	2	10	
Manganese		75.00000	75.00000	ug/L	0	10	
Molybdenum		750.0000	741.0000	ug/L	-1	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	74.30000	ug/L	-1	10	
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	73.60000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459096

Run Name :
Filename : tr212396

Injected : 04-AUG-2003 15:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	508.1000	ug/L	2		10	
Antimony		500.0000	474.0000	ug/L	-5		10	
Arsenic		250.0000	266.0000	ug/L	6		10	
Barium		500.0000	496.0000	ug/L	-1		10	
Beryllium		50.00000	52.80000	ug/L	6		10	
Cadmium		50.00000	52.20000	ug/L	4		10	
Calcium		1000.000	1016.000	ug/L	2		10	
Chromium		100.0000	103.0000	ug/L	3		10	
Cobalt		250.0000	256.0000	ug/L	2		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	536.1000	ug/L	7		10	
Lead		250.0000	259.0000	ug/L	4		10	
Magnesium		1000.000	1051.000	ug/L	5		10	
Manganese		50.00000	50.50000	ug/L	1		10	
Molybdenum		500.0000	507.0000	ug/L	1		10	
Nickel		250.0000	263.0000	ug/L	5		10	
Selenium		250.0000	254.0000	ug/L	2		10	
Silver		50.00000	54.40000	ug/L	9		10	
Thallium		250.0000	253.0000	ug/L	1		10	
Titanium		500.0000	516.0000	ug/L	3		10	
Vanadium		250.0000	252.0000	ug/L	1		10	
Zinc		50.00000	50.10000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 73311459106

Run Name :
Filename : tr212406

Injected : 04-AUG-2003 16:33
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	723.7000	ug/L	-4	10	
Antimony		750.0000	738.0000	ug/L	-2	10	
Arsenic		375.0000	394.0000	ug/L	5	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	76.60000	ug/L	2	10	
Cadmium		75.00000	77.10000	ug/L	3	10	
Calcium		1500.000	1432.000	ug/L	-5	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	745.7000	ug/L	-1	10	
Lead		375.0000	370.0000	ug/L	-1	10	
Magnesium		1500.000	1504.000	ug/L	0	10	
Manganese		75.00000	71.90000	ug/L	-4	10	
Molybdenum		750.0000	732.0000	ug/L	-2	10	
Nickel		375.0000	386.0000	ug/L	3	10	
Selenium		375.0000	384.0000	ug/L	2	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	377.0000	ug/L	1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	75.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459119

Run Name :
Filename : tr212420

Injected : 04-AUG-2003 17:37
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	530.0000	ug/L	6	10	
Antimony		500.0000	527.0000	ug/L	5	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	52.20000	ug/L	4	10	
Cadmium		50.00000	49.50000	ug/L	-1	10	
Calcium		1000.000	1000.000	ug/L	0	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	98.90000	ug/L	-1	10	
Iron		500.0000	504.2000	ug/L	1	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1024.000	ug/L	2	10	
Manganese		50.00000	50.10000	ug/L	0	10	
Molybdenum		500.0000	487.0000	ug/L	-3	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	54.10000	ug/L	8	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	510.0000	ug/L	2	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	47.60000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459130

Run Name :
Filename : tr212431

Injected : 04-AUG-2003 18:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	494.0000	ug/L	-1	10	
Antimony		500.0000	547.0000	ug/L	9	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	47.60000	ug/L	-5	10	
Calcium		1000.000	943.4000	ug/L	-6	10	
Chromium		100.0000	98.30000	ug/L	-2	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	98.50000	ug/L	-2	10	
Iron		500.0000	485.8000	ug/L	-3	10	
Lead		250.0000	233.0000	ug/L	-7	10	
Magnesium		1000.000	968.9000	ug/L	-3	10	
Manganese		50.00000	48.00000	ug/L	-4	10	
Molybdenum		500.0000	470.0000	ug/L	-6	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	50.60000	ug/L	1	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	48.20000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459141

Run Name :
Filename : tr212442

Injected : 04-AUG-2003 19:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	712.5000	ug/L	-5	10	
Antimony		750.0000	903.0000	ug/L	20	10	1 ***
Arsenic		375.0000	383.0000	ug/L	2	10	
Barium		750.0000	731.0000	ug/L	-3	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	73.10000	ug/L	-3	10	
Calcium		1500.000	1461.000	ug/L	-3	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	751.7000	ug/L	0	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1446.000	ug/L	-4	10	
Manganese		75.00000	72.00000	ug/L	-4	10	
Molybdenum		750.0000	726.0000	ug/L	-3	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	75.70000	ug/L	1	10	
Thallium		375.0000	364.0000	ug/L	-3	10	
Titanium		750.0000	740.0000	ug/L	-1	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	73.10000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459154

Run Name :
Filename : tr212455

Injected : 04-AUG-2003 20:49
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	494.6000	ug/L	-1	10	
Antimony		500.0000	555.0000	ug/L	11	10	1 ***
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	48.80000	ug/L	-2	10	
Calcium		1000.000	978.7000	ug/L	-2	10	
Chromium		100.0000	97.90000	ug/L	-2	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	96.50000	ug/L	-4	10	
Iron		500.0000	515.5000	ug/L	3	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	955.4000	ug/L	-4	10	
Manganese		50.00000	47.40000	ug/L	-5	10	
Molybdenum		500.0000	473.0000	ug/L	-5	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	493.0000	ug/L	-1	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	58.20000	ug/L	16	10	1 ***

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459167

Run Name :
Filename : tr212468

Injected : 04-AUG-2003 21:51
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	675.4000	ug/L	-10	10	
Antimony		750.0000	896.0000	ug/L	19	10	1 ***
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	724.0000	ug/L	-3	10	
Beryllium		75.00000	72.10000	ug/L	-4	10	
Cadmium		75.00000	71.70000	ug/L	-4	10	
Calcium		1500.000	1316.000	ug/L	-12	10	1 ***
Chromium		150.0000	141.0000	ug/L	-6	10	
Cobalt		375.0000	351.0000	ug/L	-6	10	
Copper		150.0000	142.0000	ug/L	-5	10	
Iron		750.0000	718.4000	ug/L	-4	10	
Lead		375.0000	347.0000	ug/L	-7	10	
Magnesium		1500.000	1380.000	ug/L	-8	10	
Manganese		75.00000	67.80000	ug/L	-10	10	
Molybdenum		750.0000	705.0000	ug/L	-6	10	
Nickel		375.0000	362.0000	ug/L	-3	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	71.80000	ug/L	-4	10	
Thallium		375.0000	355.0000	ug/L	-5	10	
Titanium		750.0000	711.0000	ug/L	-5	10	
Vanadium		375.0000	347.0000	ug/L	-7	10	
Zinc		75.00000	72.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459175

Run Name :
Filename : tr212476

Injected : 04-AUG-2003 22:32
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	479.2000	ug/L	-4	10	
Antimony		500.0000	547.0000	ug/L	9	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	484.0000	ug/L	-3	10	
Beryllium		50.00000	48.90000	ug/L	-2	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	915.8000	ug/L	-8	10	
Chromium		100.0000	95.60000	ug/L	-4	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	93.50000	ug/L	-7	10	
Iron		500.0000	508.0000	ug/L	2	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	934.6000	ug/L	-7	10	
Manganese		50.00000	45.80000	ug/L	-8	10	
Molybdenum		500.0000	469.0000	ug/L	-6	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	47.70000	ug/L	-5	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	480.0000	ug/L	-4	10	
Vanadium		250.0000	234.0000	ug/L	-6	10	
Zinc		50.00000	52.10000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459004
Filename: tr212304

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 04-AUG-2003 07:40

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[18.900]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1320]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.1540]		5.000000	ug/L	<	RL
Calcium	[6.5010]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.7990]		10.00000	ug/L	<	RL
Copper	[0.0770]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.0140]		10.00000	ug/L	<	RL
Molybdenum	[2.6200]		20.00000	ug/L	<	RL
Nickel	[0.1110]		20.00000	ug/L	<	RL
Selenium	[1.4100]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[4.5700]		5.000000	ug/L	<	RL
Titanium	[2.5300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[1.3800]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459016
Filename: tr212316

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 08:48

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[0.6890]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2450]	10.00000	ug/L	<RL	
Beryllium	[0.1140]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[13.080]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.7260]	10.00000	ug/L	<RL	
Copper	[0.4270]	10.00000	ug/L	<RL	
Iron	[16.100]	100.0000	ug/L	<RL	
Lead	[0.6970]	3.000000	ug/L	<RL	
Magnesium	[4.5340]	500.0000	ug/L	<RL	
Manganese	[0.2210]	10.00000	ug/L	<RL	
Molybdenum	[4.5600]	20.00000	ug/L	<RL	
Nickel	[0.0790]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[3.7700]	5.000000	ug/L	<RL	
Titanium	[3.3300]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.4200]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459028
Filename: tr212328

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 09:44

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[2.0000]	60.00000	ug/L	<	RL
Arsenic	[1.0100]	5.000000	ug/L	<	RL
Barium	[0.2220]	10.00000	ug/L	<	RL
Beryllium	[0.4260]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[3.3630]	500.0000	ug/L	<	RL
Chromium	[0.1850]	10.00000	ug/L	<	RL
Cobalt	[1.1600]	10.00000	ug/L	<	RL
Copper	[0.2440]	10.00000	ug/L	<	RL
Iron	[19.780]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[2.4620]	500.0000	ug/L	<	RL
Manganese	[0.1600]	10.00000	ug/L	<	RL
Molybdenum	[4.6400]	20.00000	ug/L	<	RL
Nickel	[0.2360]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.8600]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.2600]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459040
Filename: tr212340

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 10:48

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.300]	60.00000	ug/L	<RL	
Arsenic	[0.1150]	5.000000	ug/L	<RL	
Barium	[0.3940]	10.00000	ug/L	<RL	
Beryllium	[0.5610]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0450]	10.00000	ug/L	<RL	
Cobalt	[1.3000]	10.00000	ug/L	<RL	
Copper	[0.3000]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.3700]	3.000000	ug/L	<RL	
Magnesium	[3.4980]	500.0000	ug/L	<RL	
Manganese	[0.0870]	10.00000	ug/L	<RL	
Molybdenum	[9.1800]	20.00000	ug/L	<RL	
Nickel	[0.2130]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.1700]	5.000000	ug/L	<RL	
Titanium	[3.0800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.0300]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459050
Filename: tr212350

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 12:34

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.300]	60.00000	ug/L	<RL	
Arsenic	[1.6900]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.0320]	2.000000	ug/L	<RL	
Cadmium	[0.1000]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0320]	10.00000	ug/L	<RL	
Copper	[0.2060]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.5240]	500.0000	ug/L	<RL	
Manganese	[0.0500]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	[0.0990]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0740]	5.000000	ug/L	<RL	
Thallium	[2.0800]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459060
Filename: tr212360

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 13:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[8.0260]	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[0.3800]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.6650]	2.000000	ug/L	<	RL
Cadmium	[0.1090]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[2.3680]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[2.9320]	500.0000	ug/L	<	RL
Manganese	[0.0310]	10.00000	ug/L	<	RL
Molybdenum	ND	20.00000	ug/L	<	RL
Nickel	[0.4870]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[0.9460]	5.000000	ug/L	<	RL
Titanium	ND	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459072
Filename: tr212372

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 14:13

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[22.060]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[1.7600]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[1.1300]	2.000000	ug/L	<RL		
Cadmium	[0.1780]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.2680]	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[18.400]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[6.8040]	500.0000	ug/L	<RL		
Manganese	[0.3690]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.0030]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.0300]	5.000000	ug/L	<RL		
Titanium	[0.6900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459085
Filename: tr212385

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:09

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[22.680]	100.0000	ug/L	<RL		
Antimony	[30.300]	60.00000	ug/L	<RL		
Arsenic	[3.1000]	5.000000	ug/L	<RL		
Barium	[0.0370]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1690]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	[0.1670]	10.00000	ug/L	<RL		
Cobalt	[0.1940]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[18.030]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[5.8400]	500.0000	ug/L	<RL		
Manganese	[0.3290]	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	[0.2890]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.1770]	5.000000	ug/L	<RL		
Thallium	[0.5390]	5.000000	ug/L	<RL		
Titanium	[0.5030]	10.00000	ug/L	<RL		
Vanadium	[0.2170]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459097
Filename: tr212397

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 15:59

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[23.430]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.3640]	2.000000	ug/L	<RL	
Cadmium	[0.0310]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0010]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[12.970]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.6230]	500.0000	ug/L	<RL	
Manganese	[0.2030]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0950]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.7700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459107
Filename: tr212407

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 16:38

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[27.280]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.9110]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.8790]	2.000000	ug/L	<RL	
Cadmium	[0.0970]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[16.130]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.9880]	500.0000	ug/L	<RL	
Manganese	[0.2140]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.2000]	5.000000	ug/L	<RL	
Titanium	[0.4000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459120
Filename: tr212421

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 17:49

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[63.900]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.1100]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.4800]	2.000000	ug/L	<RL	
Cadmium	[0.0960]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.1220]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[3.1130]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[3.4740]	500.0000	ug/L	<RL	
Manganese	[0.0490]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.5300]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459132
Filename: tr212433

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 18:56

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[62.040]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.1810]	2.000000	ug/L	<RL	
Cadmium	[0.2030]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.6240]	10.00000	ug/L	<RL	
Cobalt	[0.0290]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[18.570]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.8320]	500.0000	ug/L	<RL	
Manganese	[0.0140]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0570]	5.000000	ug/L	<RL	
Thallium	[2.2900]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459143
Filename: tr212444

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 19:53

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[66.880]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.5780]	2.000000	ug/L	<RL	
Cadmium	[0.0720]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.6350]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.640]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.2650]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.2900]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459156
Filename: tr212457

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 21:01

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[66.670]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[0.8720]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.8600]	2.000000	ug/L	<RL	
Cadmium	[0.0670]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.6900]	10.00000	ug/L	<RL	
Cobalt	[0.0780]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[17.890]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.9830]	500.0000	ug/L	<RL	
Manganese	[0.0320]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.1610]	5.000000	ug/L	<RL	
Thallium	[3.0200]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459169
Filename: tr212470

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 22:03

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[66.880]	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[1.6000]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[1.2200]	2.000000	ug/L	<	RL
Cadmium	[0.0570]	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	[0.7770]	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[17.450]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[2.9730]	500.0000	ug/L	<	RL
Manganese	[0.0350]	10.00000	ug/L	<	RL
Molybdenum	ND	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.1400]	5.000000	ug/L	<	RL
Titanium	ND	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73311459177
Filename: tr212478

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 04-AUG-2003 22:44

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[68.880]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.4900]	2.000000	ug/L	<RL	
Cadmium	[0.0990]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.7990]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[16.770]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.4268]	500.0000	ug/L	<RL	
Manganese	[0.0210]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.0040]	5.000000	ug/L	<RL	
Thallium	[1.9900]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459006

Run Name :
Filename : tr212306

Injected : 04-AUG-2003 08:00
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	514600.0	ug/L	3		
Antimony	500.0000	513.0000	ug/L	3	20	
Arsenic	500.0000	542.0000	ug/L	8	20	
Barium	500.0000	481.0000	ug/L	-4	20	
Beryllium	500.0000	512.0000	ug/L	2	20	
Cadmium	1000.000	971.0000	ug/L	-3	20	
Calcium	500000.0	464500.0	ug/L	-7		
Chromium	500.0000	475.0000	ug/L	-5	20	
Cobalt	500.0000	480.0000	ug/L	-4	20	
Copper	500.0000	505.0000	ug/L	1	20	
Iron	200000.0	185600.0	ug/L	-7		
Lead	1000.000	994.0000	ug/L	-1	20	
Magnesium	500000.0	519400.0	ug/L	4		
Manganese	500.0000	484.0000	ug/L	-3	20	
Molybdenum	500.0000	461.0000	ug/L	-8	20	
Nickel	1000.000	1030.000	ug/L	3	20	
Selenium	500.0000	521.0000	ug/L	4	20	
Silver	1000.000	1020.000	ug/L	2	20	
Thallium	500.0000	467.0000	ug/L	-7	20	
Titanium	20000.00	1990.000	ug/L	-90		
Vanadium	500.0000	487.0000	ug/L	-3	20	
Zinc	1000.000	1020.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459074

Run Name :
Filename : tr212374

Injected : 04-AUG-2003 14:21
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	431200.0	ug/L	-14			
Antimony	500.0000	439.0000	ug/L	-12		20	
Arsenic	500.0000	504.0000	ug/L	1		20	
Barium	500.0000	445.0000	ug/L	-11		20	
Beryllium	500.0000	430.0000	ug/L	-14		20	
Cadmium	1000.000	871.0000	ug/L	-13		20	
Calcium	500000.0	353200.0	ug/L	-29			
Chromium	500.0000	414.0000	ug/L	-17		20	
Cobalt	500.0000	413.0000	ug/L	-17		20	
Copper	500.0000	454.0000	ug/L	-9		20	
Iron	200000.0	159800.0	ug/L	-20			
Lead	1000.000	903.0000	ug/L	-10		20	
Magnesium	500000.0	456200.0	ug/L	-9			
Manganese	500.0000	406.0000	ug/L	-19		20	
Molybdenum	500.0000	421.0000	ug/L	-16		20	
Nickel	1000.000	909.0000	ug/L	-9		20	
Selenium	500.0000	479.0000	ug/L	-4		20	
Silver	1000.000	963.0000	ug/L	-4		20	
Thallium	500.0000	432.0000	ug/L	-14		20	
Titanium	20000.00	1780.000	ug/L	-91			
Vanadium	500.0000	423.0000	ug/L	-15		20	
Zinc	1000.000	924.0000	ug/L	-8		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459108

Run Name :
Filename : tr212408

Injected : 04-AUG-2003 16:41
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	420700.0	ug/L	-16		
Antimony	500.0000	435.0000	ug/L	-13	20	
Arsenic	500.0000	502.0000	ug/L	0	20	
Barium	500.0000	444.0000	ug/L	-11	20	
Beryllium	500.0000	430.0000	ug/L	-14	20	
Cadmium	1000.000	870.0000	ug/L	-13	20	
Calcium	500000.0	352400.0	ug/L	-30		
Chromium	500.0000	413.0000	ug/L	-17	20	
Cobalt	500.0000	414.0000	ug/L	-17	20	
Copper	500.0000	459.0000	ug/L	-8	20	
Iron	200000.0	154800.0	ug/L	-23		
Lead	1000.000	901.0000	ug/L	-10	20	
Magnesium	500000.0	450500.0	ug/L	-10		
Manganese	500.0000	409.0000	ug/L	-18	20	
Molybdenum	500.0000	419.0000	ug/L	-16	20	
Nickel	1000.000	904.0000	ug/L	-10	20	
Selenium	500.0000	478.0000	ug/L	-4	20	
Silver	1000.000	994.0000	ug/L	-1	20	
Thallium	500.0000	439.0000	ug/L	-12	20	
Titanium	20000.00	1770.000	ug/L	-91		
Vanadium	500.0000	426.0000	ug/L	-15	20	
Zinc	1000.000	953.0000	ug/L	-5	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459121

Run Name :
Filename : tr212422

Injected : 04-AUG-2003 17:53
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	433000.0	ug/L	-13			
Antimony	500.0000	502.0000	ug/L	0	20		
Arsenic	500.0000	485.0000	ug/L	-3	20		
Barium	500.0000	449.0000	ug/L	-10	20		
Beryllium	500.0000	424.0000	ug/L	-15	20		
Cadmium	1000.000	823.0000	ug/L	-18	20		
Calcium	500000.0	371700.0	ug/L	-26			
Chromium	500.0000	412.0000	ug/L	-18	20		
Cobalt	500.0000	409.0000	ug/L	-18	20		
Copper	500.0000	475.0000	ug/L	-5	20		
Iron	200000.0	160800.0	ug/L	-20			
Lead	1000.000	889.0000	ug/L	-11	20		
Magnesium	500000.0	455900.0	ug/L	-9			
Manganese	500.0000	422.0000	ug/L	-16	20		
Molybdenum	500.0000	414.0000	ug/L	-17	20		
Nickel	1000.000	890.0000	ug/L	-11	20		
Selenium	500.0000	462.0000	ug/L	-8	20		
Silver	1000.000	1030.000	ug/L	3	20		
Thallium	500.0000	415.0000	ug/L	-17	20		
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	430.0000	ug/L	-14	20		
Zinc	1000.000	928.0000	ug/L	-7	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73311459178

Run Name :
Filename : tr212479

Injected : 04-AUG-2003 22:48
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	367100.0	ug/L	-27			
Antimony	500.0000	539.0000	ug/L	8	20		
Arsenic	500.0000	480.0000	ug/L	-4	20		
Barium	500.0000	442.0000	ug/L	-12	20		
Beryllium	500.0000	396.0000	ug/L	-21	20	#	***
Cadmium	1000.000	819.0000	ug/L	-18	20		
Calcium	500000.0	318800.0	ug/L	-36			
Chromium	500.0000	386.0000	ug/L	-23	20	#	***
Cobalt	500.0000	393.0000	ug/L	-21	20	#	***
Copper	500.0000	452.0000	ug/L	-10	20		
Iron	200000.0	146700.0	ug/L	-27			
Lead	1000.000	861.0000	ug/L	-14	20		
Magnesium	500000.0	417600.0	ug/L	-16			
Manganese	500.0000	385.0000	ug/L	-23	20	#	***
Molybdenum	500.0000	401.0000	ug/L	-20	20		
Nickel	1000.000	864.0000	ug/L	-14	20		
Selenium	500.0000	461.0000	ug/L	-8	20		
Silver	1000.000	916.0000	ug/L	-8	20		
Thallium	500.0000	414.0000	ug/L	-17	20		
Titanium	20000.00	1690.000	ug/L	-92			
Vanadium	500.0000	406.0000	ug/L	-19	20		
Zinc	1000.000	936.0000	ug/L	-6	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
001	tr212300	X				04-AUG-2003	06:59	1.0				1		
002	tr212301	CS				04-AUG-2003	07:05	1.0				1		
003	tr212303	ICV				04-AUG-2003	07:28	1.0				2		
004	tr212304	ICB				04-AUG-2003	07:40	1.0				3		
005	tr212305	CRI				04-AUG-2003	07:56	1.0				4		4:MG=519400
006	tr212306	ICSAB				04-AUG-2003	08:00	1.0						
007	tr212307	BLANK	QC221106	83386	Soil	04-AUG-2003	08:04	1.0						
008	tr212308	BS	QC221107	83386	Soil	04-AUG-2003	08:09	1.0						
009	tr212309	BSD	QC221108	83386	Soil	04-AUG-2003	08:12	1.0						
010	tr212310	MSS	166674-002	83386	Soil	04-AUG-2003	08:18	1.0						2:FE=270700
011	tr212311	SER	QC221111	83386	Soil	04-AUG-2003	08:22	5.0						2:FE=264300
012	tr212312	MS	QC221109	83386	Soil	04-AUG-2003	08:26	1.0						2:FE=331500
013	tr212313	MSD	QC221110	83386	Soil	04-AUG-2003	08:30	1.0						2:FE=224400
014	tr212314	SAMPLE	166674-003	83386	Soil	04-AUG-2003	08:35	1.0						
015	tr212315	CCV				04-AUG-2003	08:44	1.0				5		
016	tr212316	CCB				04-AUG-2003	08:48	1.0						2:FE=274600
017	tr212317	SAMPLE	166674-004	83386	Soil	04-AUG-2003	08:52	1.0						2:FE=252700
018	tr212318	SAMPLE	166674-005	83386	Soil	04-AUG-2003	08:56	1.0						2:FE=245100
019	tr212319	SAMPLE	166674-006	83386	Soil	04-AUG-2003	09:00	1.0						3:FE=399000
020	tr212320	SAMPLE	166674-007	83386	Soil	04-AUG-2003	09:04	1.0						2:FE=357600
021	tr212321	SAMPLE	166674-008	83386	Soil	04-AUG-2003	09:08	1.0						2:FE=394900
022	tr212322	SAMPLE	166674-009	83386	Soil	04-AUG-2003	09:12	1.0						3:FE=590900
023	tr212323	SAMPLE	166674-010	83386	Soil	04-AUG-2003	09:16	1.0						3:FE=471500
024	tr212324	SAMPLE	166674-011	83386	Soil	04-AUG-2003	09:20	1.0						3:FE=500600
025	tr212325	SAMPLE	166674-012	83386	Soil	04-AUG-2003	09:23	1.0						3:FE=379400
026	tr212326	SAMPLE	166674-013	83386	Soil	04-AUG-2003	09:27	1.0						
027	tr212327	CCV				04-AUG-2003	09:39	1.0				5		
028	tr212328	CCB				04-AUG-2003	09:44	1.0						2:FE=279400
029	tr212329	PDS	QC221144	83386	Soil	04-AUG-2003	09:48	1.0				6	7	3:FE=496500
030	tr212330	SAMPLE	166674-014	83386	Soil	04-AUG-2003	09:52	1.0						2:FE=284200
031	tr212331	SAMPLE	166674-015	83386	Soil	04-AUG-2003	09:56	1.0						2:FE=396200
032	tr212332	SAMPLE	166674-016	83386	Soil	04-AUG-2003	10:00	1.0						

Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Mew Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

Instrument: MET07 TJA Trace ICP

Sequence: 73311459

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
033	tr212333	SAMPLE	166674-017	83386	Soil	04-AUG-2003	10:04	1.0	45.04505					2:FE=436000
034	tr212334	SAMPLE	166674-018	83386	Soil	04-AUG-2003	10:08	1.0	47.39336					2:FE=374300
035	tr212335	SAMPLE	166674-019	83386	Soil	04-AUG-2003	10:12	1.0	37.03704					3:FE=512100
036	tr212336	BLANK	QC221112	83387	Soil	04-AUG-2003	10:20	1.0	50.0					
037	tr212337	BS	QC221113	83387	Soil	04-AUG-2003	10:24	1.0	50.0					
038	tr212338	BSD	QC221114	83387	Soil	04-AUG-2003	10:32	1.0	50.0				8	
039	tr212339	CCV				04-AUG-2003	10:40	1.0	1.0					
040	tr212340	CCB				04-AUG-2003	10:48	1.0	1.0					2:FE=159400
041	tr212341	MSS	166624-011	83387	Soil	04-AUG-2003	10:53	1.0	46.08295	2				
042	tr212342	SER	QC221117	83387	Soil	04-AUG-2003	10:58	5.0	46.08295	1				
043	tr212343	SER	QC221117	83387	Soil	04-AUG-2003	11:02	5.0	46.08295					
044	tr212344	MS	QC221115	83387	Soil	04-AUG-2003	11:09	1.0	48.54369					2:FE=168500
045	tr212345	MSD	QC221116	83387	Soil	04-AUG-2003	11:12	1.0	42.73504					2:FE=198200
046	tr212346	SAMPLE	166663-001	83387	Soil	04-AUG-2003	11:16	1.0	43.29004					
047	tr212347	SAMPLE	166663-002	83387	Soil	04-AUG-2003	11:19	1.0	46.94836					
048	tr212348	SAMPLE	166663-003	83387	Soil	04-AUG-2003	11:23	1.0	42.37288					1:AL=114400
049	tr212349	CCV				04-AUG-2003	12:24	1.0	1.0				5	
050	tr212350	CCB				04-AUG-2003	12:34	1.0	1.0					
051	tr212351	MSS	166624-011	83387	Soil	04-AUG-2003	12:40	10.0	46.08295	1				
052	tr212352	SER	QC221117	83387	Soil	04-AUG-2003	12:44	50.0	46.08295					
053	tr212353	SAMPLE	166663-004	83387	Soil	04-AUG-2003	12:47	10.0	47.39336					
054	tr212354	SAMPLE	166663-005	83387	Soil	04-AUG-2003	12:51	10.0	48.30918					
055	tr212355	SAMPLE	166663-006	83387	Soil	04-AUG-2003	12:54	10.0	43.66812					
056	tr212356	BLANK	QC221090	83380	Water	04-AUG-2003	13:01	1.0	1.0					
057	tr212357	BS	QC221091	83380	Water	04-AUG-2003	13:07	1.0	1.0					
058	tr212358	BSD	QC221092	83380	Water	04-AUG-2003	13:17	1.0	1.0				8	
059	tr212359	CCV				04-AUG-2003	13:20	1.0	1.0					
060	tr212360	CCB				04-AUG-2003	13:26	1.0	1.0					
061	tr212361	MSS	166624-010	83380	Water	04-AUG-2003	13:30	1.0	1.0					
062	tr212362	MS	QC221093	83380	Water	04-AUG-2003	13:34	1.0	1.0					
063	tr212363	MSD	QC221094	83380	Water	04-AUG-2003	13:38	1.0	1.0					
064	tr212364	SAMPLE	166674-001	83380	Water	04-AUG-2003	13:41	1.0	1.0					

stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Me. N. N. Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73311459

#	Filename Type	Sample/num	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
065	tr212365 SAMPLE	166674-020	83380 Water	04-AUG-2003 13:45 1.0	1.0			
066	tr212366 BLANK	QC220915	83339 Soil	04-AUG-2003 13:48 1.0	50.0	2		
067	tr212367 BS	QC220916	83339 Soil	04-AUG-2003 13:52 1.0	50.0			
068	tr212368 BSD	QC220917	83339 Soil	04-AUG-2003 13:55 1.0	50.0			
069	tr212369 MSS	166599-003	83339 Soil	04-AUG-2003 13:59 1.0	47.84689	2		2:FE=244600
070	tr212370 MS	QC220918	83339 Soil	04-AUG-2003 14:02 1.0	48.30918		5	2:FE=245700
071	tr212371 CCV			04-AUG-2003 14:09 1.0	1.0			
072	tr212372 CCB			04-AUG-2003 14:13 1.0	1.0			
073	tr212373 BLANK			04-AUG-2003 14:17 1.0	50.0			
074	tr212374 ICSAB	QC220915	83339 Soil	04-AUG-2003 14:21 1.0	1.0		4	4:MG=456200
075	tr212375 SER	QC220920	83339 Soil	04-AUG-2003 14:25 5.0	47.84689			2:FE=247800
076	tr212376 MSD	QC220919	83339 Soil	04-AUG-2003 14:32 1.0	49.01961			2:FE=240600
077	tr212377 MSS	166599-004	83339 Soil	04-AUG-2003 14:35 1.0	49.01961	2		3:FE=285800
078	tr212378 MS	QC220921	83339 Soil	04-AUG-2003 14:39 1.0	43.29004			2:FE=270900
079	tr212379 MSD	QC220922	83339 Soil	04-AUG-2003 14:42 1.0	45.87156	1		3:FE=374500
080	tr212380 SAMPLE	166599-001	83339 Soil	04-AUG-2003 14:46 1.0	48.54369	1		2:FE=237300
081	tr212381 SAMPLE	166599-002	83339 Soil	04-AUG-2003 14:49 1.0	48.78049			3:FE=434300
082	tr212382 SAMPLE	166599-005	83339 Soil	04-AUG-2003 14:53 1.0	44.24779			4:FE=409500
083	tr212383 SAMPLE	166599-006	83339 Soil	04-AUG-2003 14:56 1.0	45.87156		8	
084	tr212384 CCV			04-AUG-2003 15:02 1.0	1.0			
085	tr212385 CCB			04-AUG-2003 15:09 1.0	1.0			1:FE=152100
086	tr212386 SAMPLE	166599-008	83339 Soil	04-AUG-2003 15:16 1.0	48.54369			1:FE=162400
087	tr212387 SAMPLE	166599-009	83339 Soil	04-AUG-2003 15:19 1.0	47.84689			1:FE=166100
088	tr212388 SAMPLE	166599-010	83339 Soil	04-AUG-2003 15:23 1.0	46.08295			1:FE=178800
089	tr212389 SAMPLE	166599-011	83339 Soil	04-AUG-2003 15:26 1.0	46.51163			1:FE=152200
090	tr212390 SAMPLE	166599-012	83339 Soil	04-AUG-2003 15:30 1.0	43.85965			1:FE=171400
091	tr212391 SAMPLE	166599-015	83339 Soil	04-AUG-2003 15:33 1.0	40.65041			1:FE=154100
092	tr212392 SAMPLE	166599-016	83339 Soil	04-AUG-2003 15:38 1.0	49.01961			1:FE=164700
093	tr212393 SAMPLE	166599-017	83339 Soil	04-AUG-2003 15:42 1.0	49.50495			1:FE=146100
094	tr212394 SAMPLE	166599-018	83339 Soil	04-AUG-2003 15:45 1.0	49.26108			2:FE=182400
095	tr212395 SAMPLE	166599-019	83339 Soil	04-AUG-2003 15:48 1.0	46.51163		5	
096	tr212396 CCV			04-AUG-2003 15:56 1.0	1.0			

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Mei Wu Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

Sequence: 73311459 Instrument: MET07 TJA Trace ICP

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
097	tr212397 CCB		04-AUG-2003 15:59	1.0	1.0			
098	tr212398 SAMPLE	166599-020	83339 Soil	04-AUG-2003 16:03	49.26108		2:FE=192600	
099	tr212399 SAMPLE	166599-021	83339 Soil	04-AUG-2003 16:07	46.72897		1:FE=156900	
100	tr212400 SAMPLE	166599-022	83339 Soil	04-AUG-2003 16:10	41.8410		2:FE=197600	
101	tr212401 SAMPLE	166599-023	83339 Soil	04-AUG-2003 16:14	46.51163		2:FE=193500	
102	tr212402 SAMPLE	166624-020	83387 Soil	04-AUG-2003 16:17	48.07692	1	1:FE=128000	
103	tr212403 SAMPLE	166624-022	83387 Soil	04-AUG-2003 16:21	43.29004	1	1:FE=128800	
104	tr212404 SAMPLE	166624-037	83387 Soil	04-AUG-2003 16:24	44.84305	1	1:FE=193300	
105	tr212405 SAMPLE	166599-001	83339 Soil	04-AUG-2003 16:29	48.54369			
106	tr212406 CCV		04-AUG-2003 16:33	1.0	1.0	8		
107	tr212407 CCB		04-AUG-2003 16:38	1.0	1.0			
108	tr212408 ICSAB		04-AUG-2003 16:41	1.0	1.0	4	4:MG=450500	
109	tr212409 SAMPLE	166624-038	83387 Soil	04-AUG-2003 16:45	41.49378	1	1:FE=396500	
110	tr212410 SAMPLE	166624-041	83387 Soil	04-AUG-2003 16:49	47.84689	1	1:FE=167200	
111	tr212411 SAMPLE	166642-013	83380 Water	04-AUG-2003 16:52	1.0	1		
112	tr212412 SAMPLE	166642-013	83380 Water	04-AUG-2003 16:56	1.0			
113	tr212413 SAMPLE	166642-014	83380 Water	04-AUG-2003 17:00	1.0			
114	tr212414 SAMPLE	166624-020	83387 Soil	04-AUG-2003 17:03	48.07692			
115	tr212415 SAMPLE	166624-022	83387 Soil	04-AUG-2003 17:07	43.29004			
116	tr212417 SAMPLE	166624-037	83387 Soil	04-AUG-2003 17:17	44.84305			
117	tr212418 SAMPLE	166624-038	83387 Soil	04-AUG-2003 17:21	41.49378			
118	tr212419 SAMPLE	166624-041	83387 Soil	04-AUG-2003 17:24	47.84689			
119	tr212420 CCV		04-AUG-2003 17:37	1.0	1.0	5		
120	tr212421 CCB		04-AUG-2003 17:49	1.0	1.0			
121	tr212422 ICSAB		04-AUG-2003 17:53	1.0	1.0	4	4:MG=455900	
122	tr212423 SAMPLE	166645-006	83380 Water	04-AUG-2003 18:08	1.0			
123	tr212424 SAMPLE	166618-004	83380 Water	04-AUG-2003 18:12	1.0			
124	tr212425 SAMPLE	166618-005	83380 Water	04-AUG-2003 18:16	1.0			
125	tr212426 SAMPLE	166625-002	83380 Water	04-AUG-2003 18:21	1.0		1:CA=127700	
126	tr212427 SAMPLE	166628-002	83380 Water	04-AUG-2003 18:25	1.0		1:CA=272300	
127	tr212428 SAMPLE	166628-003	83380 Water	04-AUG-2003 18:29	1.0			
128	tr212429 SAMPLE	166628-005	83380 Water	04-AUG-2003 18:33	1.0		1:MG=106500	

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: Mei W Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73311459 Instrument: MET07 TJA Trace ICP Begun: 04-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
129	tr212430 SAMPLE	166628-006	83380	Water	04-AUG-2003 18:38	1.0	1.0		1:MG=104200
130	tr212431 CCV				04-AUG-2003 18:44	1.0	1.0	5	
131	tr212432 X	rinse			04-AUG-2003 18:51	1.0	1.0		
132	tr212433 CCB				04-AUG-2003 18:56	1.0	1.0		
133	tr212434 X				04-AUG-2003 19:00	1.0	1.0		4:MG=421500
134	tr212435 SAMPLE	166646-001	83387	Soil	04-AUG-2003 19:08	1.0	48.30918		3:FE=309400
135	tr212436 SAMPLE	166646-002	83387	Soil	04-AUG-2003 19:12	1.0	44.84305		3:FE=381400
136	tr212437 SAMPLE	166646-003	83387	Soil	04-AUG-2003 19:16	1.0	45.04505		3:FE=325500
137	tr212438 SAMPLE	166646-004	83387	Soil	04-AUG-2003 19:20	1.0	46.51163		3:FE=345700
138	tr212439 SAMPLE	166646-005	83387	Soil	04-AUG-2003 19:25	1.0	46.29630		4:CA=460200
139	tr212440 SAMPLE	166646-006	83387	Soil	04-AUG-2003 19:29	1.0	46.94836		6:CA=692900
140	tr212441 SAMPLE	166646-007	83387	Soil	04-AUG-2003 19:33	1.0	46.51163		5:CA=591100
141	tr212442 CCV				04-AUG-2003 19:41	1.0	1.0	8	
142	tr212443 X	rinse			04-AUG-2003 19:49	1.0	1.0		
143	tr212444 CCB				04-AUG-2003 19:53	1.0	1.0		
144	tr212445 BLANK	QC221118	83388	Soil	04-AUG-2003 20:00	1.0	50.0	5	
145	tr212446 BS	QC221119	83388	Soil	04-AUG-2003 20:04	1.0	50.0	7	
146	tr212447 BSD	QC221120	83388	Soil	04-AUG-2003 20:08	1.0	50.0	7	
147	tr212448 MSS	166646-008	83388	Soil	04-AUG-2003 20:14	1.0	48.78049	10	5:CA=461800
148	tr212449 MS	QC221121	83388	Soil	04-AUG-2003 20:19	1.0	42.37288	1	5:CA=408600
149	tr212450 MSD	QC221122	83388	Soil	04-AUG-2003 20:23	1.0	45.66210	1	5:CA=524800
150	tr212451 SAMPLE	166646-009	83388	Soil	04-AUG-2003 20:29	1.0	46.51163		5:FE=861400
151	tr212452 SAMPLE	166646-010	83388	Soil	04-AUG-2003 20:33	1.0	48.78049		5:CA=508600
152	tr212453 SAMPLE	166646-011	83388	Soil	04-AUG-2003 20:37	1.0	48.54369		3:FE=171800
153	tr212454 SAMPLE	166646-012	83388	Soil	04-AUG-2003 20:42	1.0	45.24887		4:CA=225900
154	tr212455 CCV				04-AUG-2003 20:49	1.0	1.0	5	
155	tr212456 X	rinse			04-AUG-2003 20:56	1.0	1.0		
156	tr212457 CCB				04-AUG-2003 21:01	1.0	1.0		
157	tr212458 SAMPLE	166646-013	83388	Soil	04-AUG-2003 21:05	1.0	42.01681		3:FE=204400
158	tr212459 SAMPLE	166646-014	83388	Soil	04-AUG-2003 21:09	1.0	47.16981		5:FE=510800
159	tr212460 SAMPLE	166646-015	83388	Soil	04-AUG-2003 21:13	1.0	46.94836		2:FE=445400
160	tr212461 SAMPLE	166646-016	83388	Soil	04-AUG-2003 21:18	1.0	49.26108		3:FE=308200

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst: *M. W. W.* Date: 8/4/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 04-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73311459

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
161	tr212462	SAMPLE	166646-017	83388	Soil	04-AUG-2003	21:22	1.0	47.16981				5:CA=494400	
162	tr212463	SAMPLE	166646-018	83388	Soil	04-AUG-2003	21:26	1.0	43.66812				4:CA=322700	
163	tr212464	SAMPLE	166646-019	83388	Soil	04-AUG-2003	21:31	1.0	46.51163				3:CA=419400	
164	tr212465	SAMPLE	166646-020	83388	Soil	04-AUG-2003	21:35	1.0	46.94836				4:CA=338100	
165	tr212466	SAMPLE	166646-021	83388	Soil	04-AUG-2003	21:39	1.0	46.08295				2:FE=363000	
166	tr212467	SAMPLE	166646-022	83388	Soil	04-AUG-2003	21:43	1.0	47.84689				4:CA=278300	
167	tr212468	CCV				04-AUG-2003	21:51	1.0	1.0		2	8		
168	tr212469	X	rinse			04-AUG-2003	21:59	1.0	1.0					
169	tr212470	CCB				04-AUG-2003	22:03	1.0	1.0				6:FE=438900	
170	tr212471	SAMPLE	166646-023	83388	Soil	04-AUG-2003	22:07	1.0	40.81633				6:CA=587900	
171	tr212472	SAMPLE	166646-024	83388	Soil	04-AUG-2003	22:12	1.0	44.84305				4:FE=612900	
172	tr212473	SAMPLE	166646-025	83388	Soil	04-AUG-2003	22:16	1.0	45.66210				5:CA=447100	
173	tr212474	SAMPLE	166646-026	83388	Soil	04-AUG-2003	22:20	1.0	47.84689				5:FE=348300	
174	tr212475	SAMPLE	166646-027	83388	Soil	04-AUG-2003	22:24	1.0	43.10345	1		5		
175	tr212476	CCV				04-AUG-2003	22:32	1.0	1.0					
176	tr212477	X	rinse			04-AUG-2003	22:40	1.0	1.0					
177	tr212478	CCB				04-AUG-2003	22:44	1.0	1.0					
178	tr212479	ICSAB				04-AUG-2003	22:48	1.0	1.0		4	4	4:MG=417600	

Std used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03SS286 7=03SS287 8=03WS1151

Analyst:

Date:

Page 6 of 6

REPORTING SUMMARY FOR 166645 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166645-006	MET07	08/04/03 18:08	1.0	+	+	+	+	+	
QC221090	MET07	08/04/03 13:01	1.0	+	+	+	+	+	
QC221091	MET07	08/04/03 13:07	1.0	+	+	+	+	+	
QC221092	MET07	08/04/03 13:17	1.0	+	+	+	+	+	
QC221093	MET07	08/04/03 13:34	1.0	+	+	+	+	+	
QC221094	MET07	08/04/03 13:38	1.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary

01-AUG-2003 20:28

Batch Number : 83380
 Date Extracted : 01-AUG-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166609-001		Sherwin Williams	Water	50	ml	50	1	1					ZN	
166618-004		SOMA Environmental	Water	50	ml	50	1	1					PB	
166618-005		SOMA Environmental	Water	50	ml	50	1	1					PB	
166624-010		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	mss
166625-002		LFR Levine Fricke	Water	50	ml	50	1	1					Ag, AS, CD, CR, (more)	
166628-002		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166628-003		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166628-005		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166628-006		Wil Chee Planning	Water	50	ml	50	1	1					CD, PB	
166642-013		Mactec, Inc.	Water	50	ml	50	1	1					T26/ICP	
166642-014		Mactec, Inc.	Water	50	ml	50	1	1					T26/ICP	
166645-006		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166659-001		LA Chemical	Water	50	ml	50	1	1					ZN	
166674-001		Presidio Trust	Water	50	ml	50	1	1					PB	
166674-020		Presidio Trust	Water	50	ml	50	1	1					PB	
QC221090	BLANK		Water	50	ml	50	1	1					ICAP	
QC221091	BS		Water	50	ml	50	1	1					ICAP	
QC221092	BSD		Water	50	ml	50	1	1					ICAP	
QC221093	MS	of 166624-010	Water	50	ml	50	1	1					ICAP	
QC221094	MSD	of 166624-010	Water	50	ml	50	1	1					ICAP	
QC221095	SER	of 166624-010	Water	50	ml	50	1	1					ICAP	

.5
.5
.5
.5

ZN
PB
PB
BA, CU, PB, SB, ZN
Ag, AS, CD, CR, (more)
CD, PB
CD, PB
CD, PB
T26/ICP
T26/ICP
BA, CU, PB, SB, ZN
ZN
PB
PB
ICAP
ICAP
ICAP
ICAP
ICAP

Prep Chemist: Patricia Vergara
 Relinquished By: Patricia Vergara

Reviewed By: mm
 Received By: mm

Date: 8/14/03
 Date: 8/19

08/01/03		Batch# 83380		ICAPM 3010	
SAMPLE ID		Initial (ml)	Final vol (ml)	FILTERED YES/NO	Comments
C	1166609-001	50.0	50.0	YES	SPIKES
A	1166618-004	↓	↓	NO	✓ 0355177 (0.5 mL)
	↓ 005				✓ 0355178 ↓
	↓ 1166624-010 MSS				
E	1166625-002				
D	1166628-002				
A	↓ 003				
D	↓ 005				
A	↓ 006				
G	1166642-013				
	↓ 014				
A	1166645-006			YES	
	↓ 1166659-001				
	↓ 1166663-001				
	↓ 002				
	↓ 003				
	↓ 004				
	↓ 005				
	↓ 006				
	MS OC 221090				
	✓ BS 221091	50.0	50	YES	
	✓ BS 221092	↓	↓	NO	
	✓ MS-6667-010				
	✓ MS-6667-010				
A	1166674-001				
	↓ 020				

Reagents

HNO3 stock # Y05050

1:1 HCL/ST BAKER # Y12028/0723

(MS/MSD 1166624-010 11/2/01/03)

Continued on Page

Reagents
 HNO₃ STBaker # 805050
 1:1 HCL ST Baker # 412028/07234
 (MS/MSD 1166624-010 08/01/03)

Continued on Page

Read and Understood By

Patricia Vergara
 Signed

08/01/03 62
 Date

MM
 Signed

8/4/03
 Date

11/25/03

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B/2a.7 ✓ 6/25/03
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.5600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

✓ 125/103

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.00000000	7.02000000	7.59000000	7.44000000	8.04000000	7.55000000	6.89000000	7.12000000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

**Target Analyte List Metals**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB40[0.3]	Diln Fac:	1.000
Lab ID:	166645-011	Batch#:	83452
Matrix:	Soil	Sampled:	07/30/03
Units:	mg/Kg	Received:	07/31/03
Basis:	dry	Prepared:	08/05/03

Moisture: 46%

Analyte	Result	RL	Analyzed
Aluminum	5,000	7.7	08/06/03
Antimony	ND	4.6	08/05/03
Arsenic	2.2	0.38	08/05/03
Barium	21	0.77	08/05/03
Beryllium	0.45	0.15	08/05/03
Cadmium	0.95	0.38	08/06/03
Chromium	36	0.77	08/05/03
Cobalt	4.6	1.5	08/05/03
Copper	21	0.77	08/05/03
Iron	7,700	7.7	08/05/03
Lead	44	0.23	08/05/03
Magnesium	2,500	38	08/05/03
Manganese	86	0.77	08/05/03
Nickel	24	1.5	08/05/03
Selenium	ND	0.38	08/05/03
Silver	0.72	0.38	08/05/03
Thallium	ND	0.38	08/05/03
Vanadium	32	0.77	08/05/03
Zinc	44	1.5	08/05/03

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB18[2]	Batch#:	83452
Lab ID:	166645-018	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry		

Moisture: 1%

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	3,500	3.8	1.000	08/06/03
Antimony	ND	2.3	1.000	08/05/03
Arsenic	1.9	0.19	1.000	08/05/03
Barium	11	0.38	1.000	08/05/03
Beryllium	0.25	0.076	1.000	08/05/03
Cadmium	0.64	0.19	1.000	08/06/03
Chromium	23	0.38	1.000	08/05/03
Cobalt	3.1	0.76	1.000	08/05/03
Copper	1.9	0.38	1.000	08/05/03
Iron	6,600	38	10.00	08/06/03
Lead	6.1	0.11	1.000	08/05/03
Magnesium	1,400	19	1.000	08/05/03
Manganese	83	0.38	1.000	08/05/03
Nickel	16	0.76	1.000	08/05/03
Selenium	ND	0.19	1.000	08/05/03
Silver	ND	0.19	1.000	08/05/03
Thallium	ND	0.19	1.000	08/05/03
Vanadium	16	0.38	1.000	08/05/03
Zinc	11	0.76	1.000	08/05/03

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB38 [0.3]	Batch#:	83452
Lab ID:	166645-024	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry		

Moisture: 10%

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	3,500	4.6	1.000	08/06/03
Antimony	ND	2.8	1.000	08/05/03
Arsenic	1.6	0.23	1.000	08/05/03
Barium	10	0.46	1.000	08/05/03
Beryllium	0.26	0.092	1.000	08/05/03
Cadmium	0.67	0.23	1.000	08/06/03
Chromium	22	0.46	1.000	08/05/03
Cobalt	2.9	0.92	1.000	08/05/03
Copper	22	0.46	1.000	08/05/03
Iron	6,600	46	10.00	08/06/03
Lead	7.9	0.14	1.000	08/05/03
Magnesium	1,500	23	1.000	08/05/03
Manganese	74	0.46	1.000	08/05/03
Nickel	15	0.92	1.000	08/05/03
Selenium	ND	0.23	1.000	08/05/03
Silver	ND	0.23	1.000	08/05/03
Thallium	ND	0.23	1.000	08/05/03
Vanadium	15	0.46	1.000	08/05/03
Zinc	31	0.92	1.000	08/05/03

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB38[1] [MSD]	Batch#:	83452
Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry		

Moisture: 22%

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	4,100	6.1	1.000	08/06/03
Antimony	ND	3.6	1.000	08/05/03
Arsenic	1.9	0.30	1.000	08/05/03
Barium	11	0.61	1.000	08/05/03
Beryllium	0.32	0.12	1.000	08/05/03
Cadmium	0.78	0.30	1.000	08/06/03
Chromium	26	0.61	1.000	08/05/03
Cobalt	3.5	1.2	1.000	08/05/03
Copper	3.3	0.61	1.000	08/05/03
Iron	7,300	61	10.00	08/06/03
Lead	11	0.18	1.000	08/05/03
Magnesium	1,800	30	1.000	08/05/03
Manganese	74	0.61	1.000	08/05/03
Nickel	19	1.2	1.000	08/05/03
Selenium	ND	0.30	1.000	08/05/03
Silver	ND	0.30	1.000	08/05/03
Thallium	ND	0.30	1.000	08/05/03
Vanadium	19	0.61	1.000	08/05/03
Zinc	39	1.2	1.000	08/05/03

Barium

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Analyzed:	08/05/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
CHPSB03 [2]	SAMPLE	166645-001	33	0.52	dry	6%	83421	07/30/03	08/04/03
DUP073003B	SAMPLE	166645-002	36	0.43	dry	8%	83421	07/30/03	08/04/03
DUP073003C	SAMPLE	166645-003	13	0.42	dry	2%	83421	07/30/03	08/04/03
LCBSB41 [1]	SAMPLE	166645-004	14	0.40	dry	3%	83421	07/30/03	08/04/03
LCBSB41 [0.3]	SAMPLE	166645-005	16	0.53	dry	6%	83421	07/30/03	08/04/03
LCBSB39 [0.3]	SAMPLE	166645-007	14	0.48	dry	4%	83421	07/30/03	08/04/03
LCBSB39 [1] [MSD]	SAMPLE	166645-008	13	0.42	dry	3%	83421	07/30/03	08/04/03
LCBSB42 [0.3]	SAMPLE	166645-009	17	0.42	dry	2%	83421	07/30/03	08/04/03
LCBSB42 [1]	SAMPLE	166645-010	14	0.47	dry	2%	83421	07/30/03	08/04/03
LCBSB40 [1]	SAMPLE	166645-012	14	0.68	dry	27%	83421	07/30/03	08/04/03
LCBSB20 [1]	SAMPLE	166645-013	13	0.50	dry	2%	83421	07/30/03	08/04/03
LCBSB20 [2] [MSD]	SAMPLE	166645-014	9.8	0.39	dry	1%	83421	07/30/03	08/04/03
DUP073003D	SAMPLE	166645-015	11	0.45	dry	2%	83421	07/30/03	08/04/03
DUP073003E	SAMPLE	166645-016	11	0.50	dry	2%	83421	07/30/03	08/04/03
LCBSB18 [1]	SAMPLE	166645-017	12	0.49	dry	2%	83421	07/30/03	08/04/03
LCBSB17 [0.3]	SAMPLE	166645-019	17	0.47	dry	2%	83421	07/31/03	08/04/03
LCBSB17 [1]	SAMPLE	166645-020	12	0.47	dry	2%	83421	07/31/03	08/04/03
LCBSB36 [0.3]	SAMPLE	166645-021	23	0.44	dry	1%	83421	07/31/03	08/04/03
LCBSB36 [1]	SAMPLE	166645-022	20	0.45	dry	9%	83421	07/31/03	08/04/03
DUP073103A	SAMPLE	166645-023	14	0.43	dry	3%	83421	07/31/03	08/04/03
LCBSB34 [0.3]	SAMPLE	166645-026	15	0.51	dry	4%	83422	07/31/03	08/04/03
LCBSB34 [1]	SAMPLE	166645-027	14	0.46	dry	3%	83422	07/31/03	08/04/03
LCBSB30 [0.3]	SAMPLE	166645-028	29	0.48	dry	2%	83422	07/31/03	08/04/03
LCBSB30 [1]	SAMPLE	166645-029	29	0.47	dry	2%	83422	07/31/03	08/04/03
DUP073103B	SAMPLE	166645-030	17	0.43	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [1] [MSD]	SAMPLE	166645-031	12	0.48	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [2]	SAMPLE	166645-032	12	0.40	dry	1%	83422	07/31/03	08/04/03
DUP073103C	SAMPLE	166645-033	10	0.49	dry	2%	83422	07/31/03	08/04/03
LCBSB25 [1]	SAMPLE	166645-034	17	0.50	dry	3%	83422	07/31/03	08/04/03
LCBSB25 [2]	SAMPLE	166645-035	19	0.49	dry	3%	83422	07/31/03	08/04/03
	BLANK	QC221246	ND	0.50	as received		83421		08/04/03
	BLANK	QC221255	ND	0.50	as received		83422		08/04/03
	BLANK	QC221370	ND	0.50	as received		83452		08/05/03

Copper

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Analyzed:	08/05/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
CHPSB03 [2]	SAMPLE	166645-001	3.3	0.52	dry	6%	83421	07/30/03	08/04/03
DUP073003B	SAMPLE	166645-002	4.0	0.43	dry	8%	83421	07/30/03	08/04/03
DUP073003C	SAMPLE	166645-003	3.0	0.42	dry	2%	83421	07/30/03	08/04/03
LCBSB41 [1]	SAMPLE	166645-004	3.6	0.40	dry	3%	83421	07/30/03	08/04/03
LCBSB41 [0.3]	SAMPLE	166645-005	5.5	0.53	dry	6%	83421	07/30/03	08/04/03
LCBSB39 [0.3]	SAMPLE	166645-007	11	0.48	dry	4%	83421	07/30/03	08/04/03
LCBSB39 [1] [MSD]	SAMPLE	166645-008	4.1	0.42	dry	3%	83421	07/30/03	08/04/03
LCBSB42 [0.3]	SAMPLE	166645-009	4.5	0.42	dry	2%	83421	07/30/03	08/04/03
LCBSB42 [1]	SAMPLE	166645-010	4.1	0.47	dry	2%	83421	07/30/03	08/04/03
LCBSB40 [1]	SAMPLE	166645-012	11	0.68	dry	27%	83421	07/30/03	08/04/03
LCBSB20 [1]	SAMPLE	166645-013	3.8	0.50	dry	2%	83421	07/30/03	08/04/03
LCBSB20 [2] [MSD]	SAMPLE	166645-014	2.7	0.39	dry	1%	83421	07/30/03	08/04/03
DUP073003D	SAMPLE	166645-015	3.1	0.45	dry	2%	83421	07/30/03	08/04/03
DUP073003E	SAMPLE	166645-016	3.6	0.50	dry	2%	83421	07/30/03	08/04/03
LCBSB18 [1]	SAMPLE	166645-017	3.2	0.49	dry	2%	83421	07/30/03	08/04/03
LCBSB17 [0.3]	SAMPLE	166645-019	4.9	0.47	dry	2%	83421	07/31/03	08/04/03
LCBSB17 [1]	SAMPLE	166645-020	3.3	0.47	dry	2%	83421	07/31/03	08/04/03
LCBSB36 [0.3]	SAMPLE	166645-021	8.3	0.44	dry	1%	83421	07/31/03	08/04/03
LCBSB36 [1]	SAMPLE	166645-022	6.7	0.45	dry	9%	83421	07/31/03	08/04/03
DUP073103A	SAMPLE	166645-023	3.9	0.43	dry	3%	83421	07/31/03	08/04/03
LCBSB34 [0.3]	SAMPLE	166645-026	4.5	0.51	dry	4%	83422	07/31/03	08/04/03
LCBSB34 [1]	SAMPLE	166645-027	4.1	0.46	dry	3%	83422	07/31/03	08/04/03
LCBSB30 [0.3]	SAMPLE	166645-028	11	0.48	dry	2%	83422	07/31/03	08/04/03
LCBSB30 [1]	SAMPLE	166645-029	9.3	0.47	dry	2%	83422	07/31/03	08/04/03
DUP073103B	SAMPLE	166645-030	4.9	0.43	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [1] [MSD]	SAMPLE	166645-031	3.6	0.48	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [2]	SAMPLE	166645-032	2.3	0.40	dry	1%	83422	07/31/03	08/04/03
DUP073103C	SAMPLE	166645-033	2.1	0.49	dry	2%	83422	07/31/03	08/04/03
LCBSB25 [1]	SAMPLE	166645-034	4.9	0.50	dry	3%	83422	07/31/03	08/04/03
LCBSB25 [2]	SAMPLE	166645-035	6.5	0.49	dry	3%	83422	07/31/03	08/04/03
	BLANK	QC221246	ND	0.50	as received		83421		08/04/03
	BLANK	QC221255	ND	0.50	as received		83422		08/04/03
	BLANK	QC221370	ND	0.50	as received		83452		08/05/03

ND= Not Detected

RL= Reporting Limit

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Lead

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Analyzed:	08/05/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
CHPSB03 [2]	SAMPLE	166645-001	13	0.16	dry	6%	83421	07/30/03	08/04/03
DUP073003B	SAMPLE	166645-002	11	0.13	dry	8%	83421	07/30/03	08/04/03
DUP073003C	SAMPLE	166645-003	7.9	0.13	dry	2%	83421	07/30/03	08/04/03
LCBSB41 [1]	SAMPLE	166645-004	15	0.12	dry	3%	83421	07/30/03	08/04/03
LCBSB41 [0.3]	SAMPLE	166645-005	35	0.16	dry	6%	83421	07/30/03	08/04/03
LCBSB39 [0.3]	SAMPLE	166645-007	38	0.14	dry	4%	83421	07/30/03	08/04/03
LCBSB39 [1] [MSD]	SAMPLE	166645-008	34	0.13	dry	3%	83421	07/30/03	08/04/03
LCBSB42 [0.3]	SAMPLE	166645-009	24	0.13	dry	2%	83421	07/30/03	08/04/03
LCBSB42 [1]	SAMPLE	166645-010	23	0.14	dry	2%	83421	07/30/03	08/04/03
LCBSB40 [1]	SAMPLE	166645-012	30	0.20	dry	27%	83421	07/30/03	08/04/03
LCBSB20 [1]	SAMPLE	166645-013	23	0.15	dry	2%	83421	07/30/03	08/04/03
LCBSB20 [2] [MSD]	SAMPLE	166645-014	14	0.12	dry	1%	83421	07/30/03	08/04/03
DUP073003D	SAMPLE	166645-015	19	0.13	dry	2%	83421	07/30/03	08/04/03
DUP073003E	SAMPLE	166645-016	23	0.15	dry	2%	83421	07/30/03	08/04/03
LCBSB18 [1]	SAMPLE	166645-017	28	0.15	dry	2%	83421	07/30/03	08/04/03
LCBSB17 [0.3]	SAMPLE	166645-019	21	0.14	dry	2%	83421	07/31/03	08/04/03
LCBSB17 [1]	SAMPLE	166645-020	7.6	0.14	dry	2%	83421	07/31/03	08/04/03
LCBSB36 [0.3]	SAMPLE	166645-021	38	0.13	dry	1%	83421	07/31/03	08/04/03
LCBSB36 [1]	SAMPLE	166645-022	25	0.14	dry	9%	83421	07/31/03	08/04/03
DUP073103A	SAMPLE	166645-023	12	0.13	dry	3%	83421	07/31/03	08/04/03
LCBSB34 [0.3]	SAMPLE	166645-026	20	0.15	dry	4%	83422	07/31/03	08/04/03
LCBSB34 [1]	SAMPLE	166645-027	22	0.14	dry	3%	83422	07/31/03	08/04/03
LCBSB30 [0.3]	SAMPLE	166645-028	8.5	0.15	dry	2%	83422	07/31/03	08/04/03
LCBSB30 [1]	SAMPLE	166645-029	7.8	0.14	dry	2%	83422	07/31/03	08/04/03
DUP073103B	SAMPLE	166645-030	3.7	0.13	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [1] [MSD]	SAMPLE	166645-031	5.8	0.14	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [2]	SAMPLE	166645-032	2.1	0.12	dry	1%	83422	07/31/03	08/04/03
DUP073103C	SAMPLE	166645-033	1.9	0.15	dry	2%	83422	07/31/03	08/04/03
LCBSB25 [1]	SAMPLE	166645-034	34	0.15	dry	3%	83422	07/31/03	08/04/03
LCBSB25 [2]	SAMPLE	166645-035	49	0.15	dry	3%	83422	07/31/03	08/04/03
	BLANK	QC221246	ND	0.15	as received		83421		08/04/03
	BLANK	QC221255	ND	0.15	as received		83422		08/04/03
	BLANK	QC221370	ND	0.15	as received		83452		08/05/03

Antimony

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Analyzed:	08/05/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
CHPSB03[2]	SAMPLE	166645-001	ND	3.1	dry	6%	83421	07/30/03	08/04/03
DUP073003B	SAMPLE	166645-002	ND	2.6	dry	8%	83421	07/30/03	08/04/03
DUP073003C	SAMPLE	166645-003	ND	2.5	dry	2%	83421	07/30/03	08/04/03
LCBSB41[1]	SAMPLE	166645-004	ND	2.4	dry	3%	83421	07/30/03	08/04/03
LCBSB41[0.3]	SAMPLE	166645-005	ND	3.2	dry	6%	83421	07/30/03	08/04/03
LCBSB39[0.3]	SAMPLE	166645-007	ND	2.9	dry	4%	83421	07/30/03	08/04/03
LCBSB39[1] [MSD]	SAMPLE	166645-008	ND	2.5	dry	3%	83421	07/30/03	08/04/03
LCBSB42[0.3]	SAMPLE	166645-009	ND	2.5	dry	2%	83421	07/30/03	08/04/03
LCBSB42[1]	SAMPLE	166645-010	ND	2.8	dry	2%	83421	07/30/03	08/04/03
LCBSB40[1]	SAMPLE	166645-012	ND	4.1	dry	27%	83421	07/30/03	08/04/03
LCBSB20[1]	SAMPLE	166645-013	ND	3.0	dry	2%	83421	07/30/03	08/04/03
LCBSB20[2] [MSD]	SAMPLE	166645-014	ND	2.3	dry	1%	83421	07/30/03	08/04/03
DUP073003D	SAMPLE	166645-015	ND	2.7	dry	2%	83421	07/30/03	08/04/03
DUP073003E	SAMPLE	166645-016	ND	3.0	dry	2%	83421	07/30/03	08/04/03
LCBSB18[1]	SAMPLE	166645-017	ND	2.9	dry	2%	83421	07/30/03	08/04/03
LCBSB17[0.3]	SAMPLE	166645-019	ND	2.8	dry	2%	83421	07/31/03	08/04/03
LCBSB17[1]	SAMPLE	166645-020	ND	2.8	dry	2%	83421	07/31/03	08/04/03
LCBSB36[0.3]	SAMPLE	166645-021	ND	2.6	dry	1%	83421	07/31/03	08/04/03
LCBSB36[1]	SAMPLE	166645-022	ND	2.7	dry	9%	83421	07/31/03	08/04/03
DUP073103A	SAMPLE	166645-023	ND	2.6	dry	3%	83421	07/31/03	08/04/03
LCBSB34[0.3]	SAMPLE	166645-026	ND	3.0	dry	4%	83422	07/31/03	08/04/03
LCBSB34[1]	SAMPLE	166645-027	ND	2.8	dry	3%	83422	07/31/03	08/04/03
LCBSB30[0.3]	SAMPLE	166645-028	ND	2.9	dry	2%	83422	07/31/03	08/04/03
LCBSB30[1]	SAMPLE	166645-029	ND	2.8	dry	2%	83422	07/31/03	08/04/03
DUP073103B	SAMPLE	166645-030	ND	2.6	dry	1%	83422	07/31/03	08/04/03
LCBSB26[1] [MSD]	SAMPLE	166645-031	ND	2.9	dry	1%	83422	07/31/03	08/04/03
LCBSB26[2]	SAMPLE	166645-032	ND	2.4	dry	1%	83422	07/31/03	08/04/03
DUP073103C	SAMPLE	166645-033	ND	2.9	dry	2%	83422	07/31/03	08/04/03
LCBSB25[1]	SAMPLE	166645-034	ND	3.0	dry	3%	83422	07/31/03	08/04/03
LCBSB25[2]	SAMPLE	166645-035	ND	2.9	dry	3%	83422	07/31/03	08/04/03
	BLANK	QC221246	ND	3.0	as received		83421		08/04/03
	BLANK	QC221255	ND	3.0	as received		83422		08/04/03
	BLANK	QC221370	ND	3.0	as received		83452		08/05/03

ND= Not Detected

RL= Reporting Limit

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Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Analyzed:	08/05/03

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared
CHPSB03 [2]	SAMPLE	166645-001	18	1.0	dry	6%	83421	07/30/03	08/04/03
DUP073003B	SAMPLE	166645-002	17	0.87	dry	8%	83421	07/30/03	08/04/03
DUP073003C	SAMPLE	166645-003	33	0.84	dry	2%	83421	07/30/03	08/04/03
LCBSB41 [1]	SAMPLE	166645-004	45	0.80	dry	3%	83421	07/30/03	08/04/03
LCBSB41 [0.3]	SAMPLE	166645-005	37	1.1	dry	6%	83421	07/30/03	08/04/03
LCBSB39 [0.3]	SAMPLE	166645-007	32	0.96	dry	4%	83421	07/30/03	08/04/03
LCBSB39 [1] [MSD]	SAMPLE	166645-008	34	0.83	dry	3%	83421	07/30/03	08/04/03
LCBSB42 [0.3]	SAMPLE	166645-009	33	0.85	dry	2%	83421	07/30/03	08/04/03
LCBSB42 [1]	SAMPLE	166645-010	32	0.93	dry	2%	83421	07/30/03	08/04/03
LCBSB40 [1]	SAMPLE	166645-012	36	1.4	dry	27%	83421	07/30/03	08/04/03
LCBSB20 [1]	SAMPLE	166645-013	16	0.99	dry	2%	83421	07/30/03	08/04/03
LCBSB20 [2] [MSD]	SAMPLE	166645-014	12	0.78	dry	1%	83421	07/30/03	08/04/03
DUP073003D	SAMPLE	166645-015	13	0.89	dry	2%	83421	07/30/03	08/04/03
DUP073003E	SAMPLE	166645-016	16	1.0	dry	2%	83421	07/30/03	08/04/03
LCBSB18 [1]	SAMPLE	166645-017	16	0.98	dry	2%	83421	07/30/03	08/04/03
LCBSB17 [0.3]	SAMPLE	166645-019	25	0.95	dry	2%	83421	07/31/03	08/04/03
LCBSB17 [1]	SAMPLE	166645-020	22	0.94	dry	2%	83421	07/31/03	08/04/03
LCBSB36 [0.3]	SAMPLE	166645-021	94	0.88	dry	1%	83421	07/31/03	08/04/03
LCBSB36 [1]	SAMPLE	166645-022	70	0.90	dry	9%	83421	07/31/03	08/04/03
DUP073103A	SAMPLE	166645-023	33	0.86	dry	3%	83421	07/31/03	08/04/03
LCBSB34 [0.3]	SAMPLE	166645-026	26	1.0	dry	4%	83422	07/31/03	08/04/03
LCBSB34 [1]	SAMPLE	166645-027	27	0.93	dry	3%	83422	07/31/03	08/04/03
LCBSB30 [0.3]	SAMPLE	166645-028	18	0.97	dry	2%	83422	07/31/03	08/04/03
LCBSB30 [1]	SAMPLE	166645-029	18	0.94	dry	2%	83422	07/31/03	08/04/03
DUP073103B	SAMPLE	166645-030	13	0.85	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [1] [MSD]	SAMPLE	166645-031	15	0.96	dry	1%	83422	07/31/03	08/04/03
LCBSB26 [2]	SAMPLE	166645-032	13	0.80	dry	1%	83422	07/31/03	08/04/03
DUP073103C	SAMPLE	166645-033	12	0.97	dry	2%	83422	07/31/03	08/04/03
LCBSB25 [1]	SAMPLE	166645-034	21	0.99	dry	3%	83422	07/31/03	08/04/03
LCBSB25 [2]	SAMPLE	166645-035	27	0.98	dry	3%	83422	07/31/03	08/04/03
	BLANK	QC221246	ND	1.0	as received		83421		08/04/03
	BLANK	QC221255	ND	1.0	as received		83422		08/04/03
	BLANK	QC221370	ND	1.0	as received		83452		08/05/03

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Basis:	as received
Lab ID:	QC221370	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03

Analyte	Result	RL	Analyzed
Aluminum	ND	5.0	08/06/03
Antimony	ND	3.0	08/05/03
Arsenic	ND	0.25	08/05/03
Barium	ND	0.50	08/05/03
Beryllium	ND	0.10	08/05/03
Cadmium	ND	0.25	08/06/03
Chromium	ND	0.50	08/05/03
Cobalt	ND	1.0	08/05/03
Copper	ND	0.50	08/05/03
Iron	ND	5.0	08/05/03
Lead	ND	0.15	08/05/03
Magnesium	ND	25	08/05/03
Manganese	ND	0.50	08/05/03
Nickel	ND	1.0	08/05/03
Selenium	ND	0.25	08/05/03
Silver	ND	0.25	08/05/03
Thallium	ND	0.25	08/05/03
Vanadium	ND	0.50	08/05/03
Zinc	ND	1.0	08/05/03

**Target Analyte List Metals**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221246	Batch#:	83421
Matrix:	Soil	Prepared:	08/04/03
Units:	mg/Kg	Analyzed:	08/05/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

**Target Analyte List Metals**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221255	Batch#:	83422
Matrix:	Soil	Prepared:	08/04/03
Units:	mg/Kg	Analyzed:	08/05/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	83452
Basis:	as received	Prepared:	08/05/03

Type: BS Lab ID: QC221371

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aluminum	1,000	866.5	87	75-125	08/06/03
Antimony	100.0	96.50	97	75-125	08/06/03
Arsenic	50.00	43.80	88	75-125	08/05/03
Barium	100.0	89.00	89	75-125	08/05/03
Beryllium	2.500	2.275	91	75-125	08/05/03
Cadmium	10.00	8.850	89	75-125	08/06/03
Chromium	100.0	85.50	86	75-125	08/05/03
Cobalt	25.00	20.85	83	75-125	08/05/03
Copper	12.50	10.95	88	75-125	08/05/03
Iron	1,000	842.0	84	75-125	08/05/03
Lead	100.0	83.00	83	75-125	08/05/03
Magnesium	1,000	825.5	83	75-125	08/05/03
Manganese	25.00	20.50	82	75-125	08/05/03
Nickel	25.00	21.30	85	75-125	08/05/03
Selenium	50.00	40.30	81	75-125	08/05/03
Silver	10.00	9.100	91	75-125	08/05/03
Thallium	50.00	41.75	84	75-125	08/05/03
Vanadium	25.00	21.65	87	75-125	08/05/03
Zinc	25.00	20.75	83	75-125	08/05/03

Type: BSD Lab ID: QC221372

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	1,000	896.5	90	75-125	3	30	08/06/03
Antimony	100.0	94.50	95	75-125	2	30	08/06/03
Arsenic	50.00	45.20	90	75-125	3	30	08/05/03
Barium	100.0	90.00	90	75-125	1	30	08/05/03
Beryllium	2.500	2.355	94	75-125	3	30	08/05/03
Cadmium	10.00	8.950	90	75-125	1	30	08/06/03
Chromium	100.0	88.50	89	75-125	3	30	08/05/03
Cobalt	25.00	21.60	86	75-125	4	30	08/05/03
Copper	12.50	11.15	89	75-125	2	30	08/05/03
Iron	1,000	868.5	87	75-125	3	30	08/05/03
Lead	100.0	86.00	86	75-125	4	30	08/05/03
Magnesium	1,000	854.5	85	75-125	3	30	08/05/03
Manganese	25.00	21.10	84	75-125	3	30	08/05/03
Nickel	25.00	22.05	88	75-125	3	30	08/05/03
Selenium	50.00	41.45	83	75-125	3	30	08/05/03
Silver	10.00	9.350	94	75-125	3	30	08/05/03
Thallium	50.00	43.20	86	75-125	3	30	08/05/03
Vanadium	25.00	22.25	89	75-125	3	30	08/05/03
Zinc	25.00	21.40	86	75-125	3	30	08/05/03

Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221256

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	99.50	100	75-125
Barium	100.0	93.00	93	75-125
Copper	12.50	12.15	97	75-125
Lead	100.0	85.50	86	75-125
Zinc	25.00	21.45	86	75-125

Type: BSD Lab ID: QC221257

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.00	98	75-125	2	30
Barium	100.0	92.50	93	75-125	1	30
Copper	12.50	12.10	97	75-125	0	30
Lead	100.0	83.00	83	75-125	3	30
Zinc	25.00	21.75	87	75-125	1	30

**Target Analyte List Metals**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	83421
Basis:	as received	Prepared:	08/04/03

Type: BS Lab ID: QC221247

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	99.00	99	75-125	08/06/03
Barium	100.0	91.00	91	75-125	08/05/03
Copper	12.50	11.35	91	75-125	08/05/03
Lead	100.0	88.00	88	75-125	08/05/03
Zinc	25.00	21.75	87	75-125	08/05/03

Type: BSD Lab ID: QC221248

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	97.00	97	75-125	2	30	08/06/03
Barium	100.0	91.00	91	75-125	0	30	08/05/03
Copper	12.50	11.40	91	75-125	0	30	08/05/03
Lead	100.0	89.00	89	75-125	1	30	08/05/03
Zinc	25.00	21.85	87	75-125	0	30	08/05/03

Barium			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83421
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221247	100.0	91.00	91	75-125		
BSD	QC221248	100.0	91.00	91	75-125	0	30

Barium			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221256	100.0	93.00	93	75-125		
BSD	QC221257	100.0	92.50	93	75-125	1	30

Barium

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221371	100.0	89.00	89	75-125		
BSD	QC221372	100.0	90.00	90	75-125	1	30

Copper

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83421
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221247	12.50	11.35	91	75-125		
BSD	QC221248	12.50	11.40	91	75-125	0	30

Copper			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221256	12.50	12.15	97	75-125		
BSD	QC221257	12.50	12.10	97	75-125	0	30

Copper			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221371	12.50	10.95	88	75-125		
BSD	QC221372	12.50	11.15	89	75-125	2	30



Lead			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83421
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221247	100.0	88.00	88	75-125		
BSD	QC221248	100.0	89.00	89	75-125	1	30

Lead			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221256	100.0	85.50	86	75-125		
BSD	QC221257	100.0	83.00	83	75-125	3	30

**Lead**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221371	100.0	83.00	83	75-125		
BSD	QC221372	100.0	86.00	86	75-125	4	30

Antimony

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83421
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221247	100.0	99.00	99	75-125		
BSD	QC221248	100.0	97.00	97	75-125	2	30

Antimony			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221256	100.0	99.50	100	75-125		
BSD	QC221257	100.0	98.00	98	75-125	2	30

Antimony

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221371	100.0	96.50	97	75-125		
BSD	QC221372	100.0	94.50	95	75-125	2	30

Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83421
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221247	25.00	21.75	87	75-125		
BSD	QC221248	25.00	21.85	87	75-125	0	30

Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83422
Units:	mg/Kg	Prepared:	08/04/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221256	25.00	21.45	86	75-125		
BSD	QC221257	25.00	21.75	87	75-125	1	30

Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83452
Units:	mg/Kg	Prepared:	08/05/03
Basis:	as received	Analyzed:	08/05/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221371	25.00	20.75	83	75-125		
BSD	QC221372	25.00	21.40	86	75-125	3	30



Target Analyte List Metals			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB38[1] [MSD]	Diln Fac:	1.000
MSS Lab ID:	166645-025	Batch#:	83452
Matrix:	Soil	Sampled:	07/31/03
Units:	mg/Kg	Received:	07/31/03
Basis:	dry	Prepared:	08/05/03

Moisture: 22%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Aluminum	4,069	1,115	4,949	79	75-125	08/06/03
Antimony	0.6380	111.5	63.55	56 *	75-125	08/06/03
Arsenic	1.859	55.74	49.28	85	75-125	08/05/03
Barium	10.51	111.5	108.7	88	75-125	08/05/03
Beryllium	0.3178	2.787	2.703	86	75-125	08/05/03
Cadmium	0.7777	11.15	9.365	77	75-125	08/06/03
Chromium	26.49	111.5	116.5	81	75-125	08/05/03
Cobalt	3.482	27.87	25.98	81	75-125	08/05/03
Copper	3.275	13.94	15.50	88	75-125	08/05/03
Iron	7,334	1,115	7,101 >LR	-21 NM	75-125	08/06/03
Lead	10.57	111.5	105.4	85	75-125	08/05/03
Magnesium	1,763	1,115	2,682	82	75-125	08/05/03
Manganese	74.13	27.87	102.6	102	75-125	08/05/03
Nickel	19.08	27.87	40.91	78	75-125	08/05/03
Selenium	<0.2051	55.74	44.15	79	75-125	08/05/03
Silver	<0.03333	11.15	9.755	88	75-125	08/05/03
Thallium	<0.1795	55.74	45.32	81	75-125	08/05/03
Vanadium	18.90	27.87	40.75	78	75-125	08/05/03
Zinc	39.13	27.87	66.33	98	75-125	08/05/03

Moisture: 22%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	1,160	5,211	98	75-125	4	30	08/06/03
Antimony	116.0	70.19	60 *	75-125	6	30	08/06/03
Arsenic	58.01	50.18	83	75-125	2	30	08/05/03
Barium	116.0	111.4	87	75-125	1	30	08/05/03
Beryllium	2.901	2.750	84	75-125	2	30	08/05/03
Cadmium	11.60	10.21	81	75-125	5	30	08/06/03
Chromium	116.0	115.4	77	75-125	4	30	08/05/03
Cobalt	29.01	26.34	79	75-125	2	30	08/05/03
Copper	14.50	15.84	87	75-125	1	30	08/05/03
Iron	1,160	7,507 >LR	15 NM	75-125	NC	30	08/06/03
Lead	116.0	104.4	81	75-125	5	30	08/05/03
Magnesium	1,160	2,619	74 *	75-125	4	30	08/05/03
Manganese	29.01	95.14	72 *	75-125	9	30	08/05/03
Nickel	29.01	40.90	75	75-125	2	30	08/05/03
Selenium	58.01	45.19	78	75-125	2	30	08/05/03
Silver	11.60	10.09	87	75-125	1	30	08/05/03
Thallium	58.01	46.53	80	75-125	1	30	08/05/03
Vanadium	29.01	41.71	79	75-125	0	30	08/05/03
Zinc	29.01	63.23	83	75-125	6	30	08/05/03

17.3



Target Analyte List Metals			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB39[1] [MSD]	Diln Fac:	1.000
MSS Lab ID:	166645-008	Batch#:	83421
Matrix:	Soil	Sampled:	07/30/03
Units:	mg/Kg	Received:	07/31/03
Basis:	dry	Prepared:	08/04/03

Type: MS
Lab ID: OC221249

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Antimony	0.4508	77.81	41.63	53 *	75-125	08/06/03
Barium	13.48	77.81	84.81	92	75-125	08/05/03
Copper	4.115	9.726	14.39	106	75-125	08/05/03
Lead	33.64	77.81	94.15	78	75-125	08/05/03
Zinc	33.56	19.45	51.74	93	75-125	08/05/03

Type: MSD
Lab ID: QC221250

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.1	51.55	51 *	75-125	4	30	08/06/03
Barium	100.1	108.1	95	75-125	2	30	08/05/03
Copper	12.51	17.17	104	75-125	1	30	08/05/03
Lead	100.1	1,311	1276 *	75-125	168 *	30	08/05/03
Zinc	25.02	62.56	116	75-125	9	30	08/05/03

RPD= Relative Percent Difference



Target Analyte List Metals			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB20 [2] [MSD]	Diln Fac:	1.000
MSS Lab ID:	166645-014	Batch#:	83421
Matrix:	Soil	Sampled:	07/30/03
Units:	mg/Kg	Received:	07/31/03
Basis:	dry	Prepared:	08/04/03

Type: MS
Lab ID: OC221252

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Antimony	0.4563	83.14	41.36	49 *	75-125	08/06/03
Barium	9.828	83.14	78.98	83	75-125	08/05/03
Copper	2.699	10.39	11.72	87	75-125	08/05/03
Lead	13.77	83.14	78.98	78	75-125	08/05/03
Zinc	12.44	20.78	28.47	77	75-125	08/05/03

Type: MSD
Lab ID: QC221253

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	89.39	50.06	55 *	75-125	12	30	08/06/03
Barium	89.39	84.92	84	75-125	1	30	08/05/03
Copper	11.17	12.65	89	75-125	2	30	08/05/03
Lead	89.39	84.47	79	75-125	0	30	08/05/03
Zinc	22.35	30.03	79	75-125	1	30	08/05/03

RPD= Relative Percent Difference

Target Analyte List Metals

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB26[1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03
Diln Fac:	1.000		

Type: MS Moisture: 1%
 Lab ID: QC221258

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6926	89.39	46.48	51 *	75-125
Barium	11.74	89.39	92.07	90	75-125
Copper	3.632	11.17	13.86	91	75-125
Lead	5.820	89.39	79.56	82	75-125
Zinc	15.44	22.35	34.01	83	75-125

Type: MSD Moisture: 1%
 Lab ID: QC221259

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	92.25	52.58	56 *	75-125	9	30
Barium	92.25	88.56	83	75-125	7	30
Copper	11.53	13.51	86	75-125	5	30
Lead	92.25	74.72	75	75-125	9	30
Zinc	23.06	32.06	72 *	75-125	8	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Barium			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB39[1] [MSD]	Batch#:	83421
MSS Lab ID:	166645-008	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221249	13.48	77.81	84.81	92	75-125	3%		
MSD	QC221250		100.1	108.1	95	75-125	3%	2	30

Barium

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB20 [2] [MSD]	Batch#:	83421
MSS Lab ID:	166645-014	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221252	9.828	83.14	78.98	83	75-125	1%		
MSD	QC221253		89.39	84.92	84	75-125	1%	1	30

Barium

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB26[1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221258	11.74	89.39	92.07	90	75-125	1%		
MSD	QC221259		92.25	88.56	83	75-125	1%	7	30

Barium			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCBSB38 [1] [MSD]	Batch#:	83452
MSS Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221373	10.51	111.5	108.7	88	75-125	22%		
MSD	QC221374		116.0	111.4	87	75-125	22%	1	30

Copper

Lab #: 166645
 Client: Treadwell & Rollo
 Project#: 2893.07
 Analyte: Copper
 Field ID: LCBSB39[1] [MSD]
 MSS Lab ID: 166645-008
 Matrix: Soil
 Units: mg/Kg
 Basis: dry

Location: Presidio Firing Ranges
 Prep: EPA 3050
 Analysis: EPA 6010B
 Diln Fac: 1.000
 Batch#: 83421
 Sampled: 07/30/03
 Received: 07/31/03
 Prepared: 08/04/03
 Analyzed: 08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221249	4.115	9.726	14.39	106	75-125	3%		
MSD	QC221250		12.51	17.17	104	75-125	3%	1	30

Copper

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCBSB20 [2] [MSD]	Batch#:	83421
MSS Lab ID:	166645-014	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221252	2.699	10.39	11.72	87	75-125	1%		
MSD	QC221253		11.17	12.65	89	75-125	1%	2	30

Copper

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCBSB26 [1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221258	3.632	11.17	13.86	91	75-125	1%		
MSD	QC221259		11.53	13.51	86	75-125	1%	5	30

Copper			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCBSB38[1] [MSD]	Batch#:	83452
MSS Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221373	3.275	13.94	15.50	88	75-125	22%		
MSD	QC221374		14.50	15.84	87	75-125	22%	1	30

Lead

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB39 [1] [MSD]	Batch#:	83421
MSS Lab ID:	166645-008	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221249	33.64	77.81	94.15	78	75-125	3%		
MSD	QC221250		100.1	1,311	1276 *	75-125	3%	168 *	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Lead			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB20 [2] [MSD]	Batch#:	83421
MSS Lab ID:	166645-014	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221252	13.77	83.14	78.98	78	75-125	1%		
MSD	QC221253		89.39	84.47	79	75-125	1%	0	30

Lead			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB26 [1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221258	5.820	89.39	79.56	82	75-125	1%		
MSD	QC221259		92.25	74.72	75	75-125	1%	9	30

**Lead**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCBSB38 [1] [MSD]	Batch#:	83452
MSS Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221373	10.57	111.5	105.4	85	75-125	22%		
MSD	QC221374		116.0	104.4	81	75-125	22%	5	30

Antimony			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB39 [1] [MSD]	Batch#:	83421
MSS Lab ID:	166645-008	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221249	0.4508	77.81	41.63	53 *	75-125	3%		
MSD	QC221250		100.1	51.55	51 *	75-125	3%	4	30

Antimony

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB20 [2] [MSD]	Batch#:	83421
MSS Lab ID:	166645-014	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221252	0.4563	83.14	41.36	49 *	75-125	1%		
MSD	QC221253		89.39	50.06	55 *	75-125	1%	12	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB26 [1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221258	0.6926	89.39	46.48	51 *	75-125	1%		
MSD	QC221259		92.25	52.58	56 *	75-125	1%	9	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Antimony			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCBSB38[1] [MSD]	Batch#:	83452
MSS Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221373	0.6380	111.5	63.55	56 *	75-125	22%		
MSD	QC221374		116.0	70.19	60 *	75-125	22%	6	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCBSB39[1] [MSD]	Batch#:	83421
MSS Lab ID:	166645-008	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221249	33.56	19.45	51.74	93	75-125	3%		
MSD	QC221250		25.02	62.56	116	75-125	3%	9	30

Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCBSB20 [2] [MSD]	Batch#:	83421
MSS Lab ID:	166645-014	Sampled:	07/30/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221252	12.44	20.78	28.47	77	75-125	1%		
MSD	QC221253		22.35	30.03	79	75-125	1%	1	30

**Zinc**

Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCBSB26[1] [MSD]	Batch#:	83422
MSS Lab ID:	166645-031	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/04/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221258	15.44	22.35	34.01	83	75-125	1%		
MSD	QC221259		23.06	32.06	72 *	75-125	1%	8	30

* = Value outside of QC limits; see narrative

RPD = Relative Percent Difference

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Zinc			
Lab #:	166645	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCBSB38 [1] [MSD]	Batch#:	83452
MSS Lab ID:	166645-025	Sampled:	07/31/03
Matrix:	Soil	Received:	07/31/03
Units:	mg/Kg	Prepared:	08/05/03
Basis:	dry	Analyzed:	08/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221373	39.13	27.87	66.33	98	75-125	22%		
MSD	QC221374		29.01	63.23	83	75-125	22%	6	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73314350040	Seqnum : 73314350041
Filename : tr212741	Filename : tr212742
IDF : 1.0	IDF : 5.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166645-025	Samplenum: QC221375
Matrix : Soil	Matrix : Soil
Batchnum : 83452	Batchnum : 83452
Inj : 06-AUG-2003 11:08	Inj : 06-AUG-2003 11:13
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3170	4.74	3320	23.7	5	10		u
Antimony	ND	2.84	ND	14.2	--	10		u
Arsenic	1.40	0.237	1.54	1.18	--	10		u
Barium	8.53	0.474	9.00	2.37	6	10		u
Beryllium	ND	0.0948	ND	0.474	--	10		u
Cadmium	0.607	0.237	ND	1.18	--	10		u
Calcium	2190	23.7	2410	118	10	10		u
Chromium	21.7	0.474	23.0	2.37	6	10		u
Cobalt	2.78	0.948	ND	4.74	--	10		u
Copper	2.87	0.474	3.01	2.37	--	10		u
Iron	*** usable MSS data not found ***							
Lead	8.29	0.142	8.91	0.711	7	10		u
Magnesium	1400	23.7	1550	118	10	10		u
Manganese	60.7	0.474	65.6	2.37	8	10		u
Molybdenum	ND	0.948	ND	4.74	--	10		u
Nickel	15.4	0.948	16.8	4.74	9	10		u
Selenium	ND	0.237	ND	1.18	--	10		u
Silver	ND	0.237	ND	1.18	--	10		u
Thallium	ND	0.237	ND	1.18	--	10		u
Vanadium	15.1	0.474	16.1	2.37	7	10		u
Zinc	30.5	0.948	33.4	4.74	9	10		u
Titanium	274	0.474	284	2.37	4	10		u

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73314350042	Seqnum : 73314350043
Filename : tr212743	Filename : tr212744
IDF : 10.0	IDF : 50.0
PDF : 47.39336	PDF : 47.39336
Run type : MSS	Run type : SER
Samplenum: 166645-025	Samplenum: QC221375
Matrix : Soil	Matrix : Soil
Batchnum : 83452	Batchnum : 83452
Inj : 06-AUG-2003 11:18	Inj : 06-AUG-2003 11:21
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	3220	47.4	3220	237	0	10	
Antimony	ND	28.4	ND	142	--	10	
Arsenic	ND	2.37	ND	11.8	--	10	
Barium	8.77	4.74	ND	23.7	--	10	
Beryllium	ND	0.948	ND	4.74	--	10	
Cadmium	ND	2.37	ND	11.8	--	10	
Calcium	2350	237	2400	1180	--	10	
Chromium	22.4	4.74	ND	23.7	--	10	
Cobalt	ND	9.48	ND	47.4	--	10	
Copper	ND	4.74	ND	23.7	--	10	
Iron	5720	47.4	5800	237	1	10	u
Lead	7.96	1.42	ND	7.11	--	10	
Magnesium	1510	237	1540	1180	--	10	
Manganese	64.0	4.74	65.2	23.7	2	10	
Molybdenum	ND	9.48	ND	47.4	--	10	
Nickel	16.7	9.48	ND	47.4	--	10	
Selenium	ND	2.37	ND	11.8	--	10	
Silver	ND	2.37	ND	11.8	--	10	
Thallium	ND	2.37	ND	11.8	--	10	
Vanadium	15.6	4.74	ND	23.7	--	10	
Zinc	32.6	9.48	ND	47.4	--	10	
Titanium	275	4.74	277	23.7	1	10	

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901142	Seqnum : 73312901143
Filename : tr212623	Filename : tr212624
IDF : 1.0	IDF : 5.0
PDF : 40.48583	PDF : 38.61004
Run type : MSS	Run type : SER
Samplenum: 166645-008	Samplenum: QC221251
Matrix : Soil	Matrix : Soil
Batchnum : 83421	Batchnum : 83421
Inj : 05-AUG-2003 17:40	Inj : 05-AUG-2003 17:44
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	3710	4.05	3470	19.3	6	10		u
Antimony	ND	2.43	ND	11.6	--	10		lu
Arsenic	1.99	0.202	2.03	0.965	--	10		ab*
Barium	13.1	0.405	12.5	1.93	5	10		u
Beryllium	0.215	0.0810	ND	0.386	--	10		u
Cadmium	0.789	0.202	ND	0.965	--	10		u
Calcium	2520	20.2	2470	96.5	2	10		u
Chromium	26.1	0.405	25.1	1.93	4	10		u
Cobalt	3.85	0.810	ND	3.86	--	10		u
Copper	3.99	0.405	3.59	1.93	--	10		u
Iron	*** usable MSS data not found ***							
Lead	32.6	0.121	32.4	0.579	1	10		u
Magnesium	1670	20.2	1630	96.5	2	10		u
Manganese	112	0.405	109	1.93	3	10		u
Molybdenum	ND	0.810	ND	3.86	--	10		u
Nickel	19.1	0.810	18.8	3.86	2	10		u
Selenium	ND	0.202	ND	0.965	--	10		u
Silver	ND	0.202	ND	0.965	--	10		lu
Thallium	ND	0.202	ND	0.965	--	10		u
Vanadium	19.1	0.405	18.3	1.93	4	10		u
Zinc	32.6	0.810	32.0	3.86	2	10		u
Titanium	280	0.405	263	1.93	6	10		u

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901077	Seqnum : 73312901078
Filename : tr212558	Filename : tr212559
IDF : 1.0	IDF : 5.0
PDF : 47.61905	PDF : 47.61905
Run type : MSS	Run type : SER
Samplenum: 166645-031	Samplenum: QC221260
Matrix : Soil	Matrix : Soil
Batchnum : 83422	Batchnum : 83422
Inj : 05-AUG-2003 12:51	Inj : 05-AUG-2003 12:55
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	4150	4.76	4240	23.8	2	10		u
Antimony	ND	2.86	ND	14.3	--	10		u
Arsenic	2.23	0.238	2.74	1.19	--	10		u
Barium	11.6	0.476	12.1	2.38	4	10		u
Beryllium	0.159	0.0952	ND	0.476	--	10		u
Cadmium	0.714	0.238	ND	1.19	--	10		u
Calcium	2490	23.8	2630	119	6	10		u
Chromium	25.0	0.476	26.2	2.38	5	10		u
Cobalt	3.98	0.952	ND	4.76	--	10		u
Copper	3.60	0.476	3.64	2.38	--	10		u
Iron	*** usable MSS data not found ***							
Lead	5.76	0.143	6.12	0.714	6	10		u
Magnesium	1770	23.8	1870	119	6	10		u
Manganese	116	0.476	122	2.38	6	10		u
Molybdenum	ND	0.952	ND	4.76	--	10		u
Nickel	19.3	0.952	20.7	4.76	7	10		u
Selenium	ND	0.238	ND	1.19	--	10		u
Silver	ND	0.238	ND	1.19	--	10		u
Thallium	ND	0.238	ND	1.19	--	10		u
Vanadium	19.4	0.476	20.2	2.38	4	10		u
Zinc	15.3	0.952	16.2	4.76	6	10		u
Titanium	346	0.476	352	2.38	2	10		u

u=use

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Method: 6010B Standard: blank

Run Time: 08/05/03 06:43:00

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.003	.002	.012	.005	.005
SDev	.003	.002	.000	.001	.001	.005	.001
%RSD	323.	198.	1.79	63.9	10.0	116.	22.4

#1	-.003	-.000	-.003	.001	.013	.001	.006
#2	.001	.003	-.003	.003	.011	.008	.004

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.031	.016	-.001	.001	-.002	-.011
SDev	.000	.000	.004	.008	.004	.000	.001
%RSD	2.67	1.39	27.7	1000.	396.	17.4	9.49

#1	-.002	-.032	.013	.005	.004	-.003	-.012
#2	-.002	-.031	.019	-.006	-.002	-.002	-.010

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.009	-.004	-.002	.000	.032	.1955	.0007
SDev	.002	.003	.001	.000	.000	.0007	.0001
%RSD	26.1	72.0	50.0	566.	.747	.3375	14.14

#1	.010	-.005	-.001	-.000	.032	.1960	.0007
#2	.007	-.002	-.003	.000	.031	.1951	.0006

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0015	.0012	.003	.345
SDev	.0018	.0002	.000	.001
%RSD	122.6	15.71	6.43	.246

#1	-.0002	.0011	.003	.345
#2	-.0028	.0013	.003	.344

Method: 6010B Standard: cst hi
Run Time: 08/05/03 06:49:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.33	.483	66.9	7.66	2.73	.549
SDev	.07	.03	.005	.1	.00	.01	.001
%RSD	3.18	2.57	1.13	.104	.045	.353	.094

#1	2.09	1.31	.479	66.9	7.66	2.72	.550
#2	2.18	1.36	.487	67.0	7.67	2.73	.549

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.59	1.37	1.74	1.88	3.33	4.42	.507
SDev	.00	.00	.00	.00	.01	.01	.002
%RSD	.187	.030	.019	.178	.230	.185	.474

#1	1.58	1.37	1.74	1.88	3.32	4.41	.509
#2	1.59	1.37	1.74	1.88	3.33	4.42	.505

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.648	.765	.324	2.19	.376	.4380	.6132
SDev	.003	.003	.003	.00	.001	.0001	.0006
%RSD	.415	.438	.843	.017	.276	.0323	.0999

#1	.649	.762	.326	2.19	.376	.4381	.6127
#2	.646	.767	.322	2.19	.377	.4379	.6136

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.2639	.4125	2.07	21.8
SDev	.0022	.0006	.00	.0
%RSD	.8216	.1371	.116	.120

#1	.2655	.4121	2.07	21.8
#2	.2624	.4129	2.07	21.9

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	466.177	.435099	08/05/03 06:49:13
Sb206A	206.832	Multiple	Standards	735.796	-.858429	08/05/03 06:49:13
As1890	189.042	Multiple	Standards	1031.42	2.71608	08/05/03 06:49:13
Ba4934	493.409	Multiple	Standards	14.9453	-.030887	08/05/03 06:49:13
Be3130	313.042	Multiple	Standards	12.6223	-.148522	08/05/03 06:49:13
Cd2265	226.502	Multiple	Standards	36.7061	-.166401	08/05/03 06:49:13
Cr2677	267.716	Multiple	Standards	367.485	-1.77618	08/05/03 06:49:13
Co2286	228.616	Multiple	Standards	314.795	.556139	08/05/03 06:49:13
Cu3247	324.754	Multiple	Standards	142.448	4.44357	08/05/03 06:49:13
Pb2203	220.351	Multiple	Standards	289.316	-4.58083	08/05/03 06:49:13
Pb220A	220.352	Multiple	Standards	263.472	.201995	08/05/03 06:49:13
Mo2020	202.030	Multiple	Standards	300.752	-.300752	08/05/03 06:49:13
Ni2316	231.604	Multiple	Standards	112.931	.274798	08/05/03 06:49:13
Se1960	196.021	Multiple	Standards	966.158	10.5633	08/05/03 06:49:13
Se196A	196.022	Multiple	Standards	782.009	-6.77741	08/05/03 06:49:13
Ag3280	328.068	Multiple	Standards	130.157	.459890	08/05/03 06:49:13
Tl1908	190.864	Multiple	Standards	1540.32	3.33737	08/05/03 06:49:13
V_2924	292.402	Multiple	Standards	228.504	-.015234	08/05/03 06:49:13
Zn2138	213.856	Multiple	Standards	300.626	-9.48977	08/05/03 06:49:13
Al3082	308.215	Multiple	Standards	4176.87	-816.717	08/05/03 06:49:13
Ca3179	317.933	Multiple	Standards	3265.35	-2.17690	08/05/03 06:49:13
Fe2714	271.441	Multiple	Standards	3928.75	5.89313	08/05/03 06:49:13
Mg2790	279.079	Multiple	Standards	4861.70	-5.83404	08/05/03 06:49:13
Mn2576	257.610	Multiple	Standards	48.4285	-.142057	08/05/03 06:49:13
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Ti3349	334.941	Multiple	Standards	46.5198	-16.0369	08/05/03 06:49:13

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901001

Run Name :
Filename : tr212482

Injected : 05-AUG-2003 07:01
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	996.8000	ug/L	0		5	
Antimony	1000.000	978.0000	ug/L	-2		5	
Arsenic	500.0000	494.0000	ug/L	-1		5	
Barium	1000.000	999.0000	ug/L	0		5	
Beryllium	100.0000	99.60000	ug/L	0		5	
Cadmium	100.0000	99.70000	ug/L	0		5	
Calcium	2000.000	1993.000	ug/L	0		5	
Chromium	200.0000	199.0000	ug/L	-1		5	
Cobalt	500.0000	499.0000	ug/L	0		5	
Copper	200.0000	200.0000	ug/L	0		5	
Iron	1000.000	997.3000	ug/L	0		5	
Lead	500.0000	499.0000	ug/L	0		5	
Magnesium	2000.000	1995.000	ug/L	0		5	
Manganese	100.0000	99.50000	ug/L	-1		5	
Molybdenum	1000.000	1000.000	ug/L	0		5	
Nickel	500.0000	499.0000	ug/L	0		5	
Selenium	500.0000	495.0000	ug/L	-1		5	
Silver	100.0000	100.0000	ug/L	0		5	
Thallium	500.0000	497.0000	ug/L	-1		5	
Titanium	1000.000	998.0000	ug/L	0		5	
Vanadium	500.0000	499.0000	ug/L	0		5	
Zinc	100.0000	99.60000	ug/L	0		5	

SECOND SOURCE CALIBRATION VERIFICATION

Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901002

```
Run Name :
Filename : tr212483
```

Injected : 05-AUG-2003 07:05
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	502.9000	ug/L	1	10
Antimony	500.0000	506.0000	ug/L	1	10
Arsenic	250.0000	260.0000	ug/L	4	10
Barium	500.0000	500.0000	ug/L	0	10
Beryllium	50.00000	52.70000	ug/L	5	10
Cadmium	50.00000	50.60000	ug/L	1	10
Calcium	1000.000	1043.000	ug/L	4	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	255.0000	ug/L	2	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	534.4000	ug/L	7	10
Lead	250.0000	256.0000	ug/L	2	10
Magnesium	1000.000	1065.000	ug/L	7	10
Manganese	50.00000	51.40000	ug/L	3	10
Molybdenum	500.0000	511.0000	ug/L	2	10
Nickel	250.0000	259.0000	ug/L	4	10
Selenium	250.0000	254.0000	ug/L	2	10
Silver	50.00000	51.40000	ug/L	3	10
Thallium	250.0000	254.0000	ug/L	2	10
Titanium	500.0000	520.0000	ug/L	4	10
Vanadium	250.0000	254.0000	ug/L	2	10
Zinc	50.00000	51.00000	ug/L	2	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD

Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73312901004

```
Run Name :
Filename : tr212485
```

Injected : 05-AUG-2003 07:14
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	106.9000	ug/L	7	50
Antimony	60.00000	72.60000	ug/L	21	50
Arsenic	5.000000	5.660000	ug/L	13	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	1.970000	ug/L	-2	50
Cadmium	5.000000	4.970000	ug/L	-1	50
Chromium	10.00000	8.890000	ug/L	-11	50
Cobalt	20.00000	20.10000	ug/L	1	50
Copper	10.00000	10.20000	ug/L	2	50
Iron	100.0000	102.6000	ug/L	3	50
Lead	3.000000	1.550000	ug/L	-48	50
Manganese	10.00000	9.990000	ug/L	0	50
Molybdenum	20.00000	19.50000	ug/L	-3	50
Nickel	20.00000	21.00000	ug/L	5	50
Selenium	5.000000	5.500000	ug/L	10	50
Silver	5.000000	5.140000	ug/L	3	50
Thallium	5.000000	6.150000	ug/L	23	50
Vanadium	10.00000	10.50000	ug/L	5	50
Zinc	20.00000	21.40000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901014

Run Name :
Filename : tr212495

Injected : 05-AUG-2003 08:10
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	509.1000	ug/L	2	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	261.0000	ug/L	4	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	51.90000	ug/L	4	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	529.2000	ug/L	6	10	
Lead		250.0000	256.0000	ug/L	2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 73312901026 Filename : tr212507 Injected : 05-AUG-2003 09:02
Standards: 03WS1151 Caltype :

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	768.8000	ug/L	3	10	
Antimony		750.0000	770.0000	ug/L	3	10	
Arsenic		375.0000	386.0000	ug/L	3	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	71.80000	ug/L	-4	10	
Calcium		1500.000	1510.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	772.5000	ug/L	3	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	369.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	68.30000	ug/L	-9	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	72.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901038

Run Name :
Filename : tr212519

Injected : 05-AUG-2003 10:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	518.2000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	47.20000	ug/L	-6	10	
Calcium		1000.000	1002.000	ug/L	0	10	
Chromium		100.0000	97.80000	ug/L	-2	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	526.2000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	474.0000	ug/L	-5	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	51.40000	ug/L	3	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901050

Run Name :
Filename : tr212531

Injected : 05-AUG-2003 11:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.1000	ug/L	1	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	71.00000	ug/L	-5	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	69.90000	ug/L	-7	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901061

Run Name :
Filename : tr212542

Injected : 05-AUG-2003 11:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	515.8000	ug/L	3	10	
Antimony		500.0000	487.0000	ug/L	-3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	479.4000	ug/L	-4	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	490.0000	ug/L	-2	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	53.60000	ug/L	7	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901072

Run Name :
Filename : tr212553

Injected : 05-AUG-2003 12:30
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	760.0000	ug/L	1	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	75.10000	ug/L	0	10	
Cadmium		75.00000	69.70000	ug/L	-7	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	360.0000	ug/L	-4	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	718.2000	ug/L	-4	10	
Lead		375.0000	357.0000	ug/L	-5	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	73.20000	ug/L	-2	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	364.0000	ug/L	-3	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	69.60000	ug/L	-7	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.00000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901084

Run Name :
Filename : tr212565

Injected : 05-AUG-2003 13:20
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	508.0000	ug/L	2		10	
Antimony		500.0000	501.0000	ug/L	0		10	
Arsenic		250.0000	257.0000	ug/L	3		10	
Barium		500.0000	492.0000	ug/L	-2		10	
Beryllium		50.00000	50.60000	ug/L	1		10	
Cadmium		50.00000	49.10000	ug/L	-2		10	
Calcium		1000.000	1001.000	ug/L	0		10	
Chromium		100.0000	99.80000	ug/L	0		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	524.8000	ug/L	5		10	
Lead		250.0000	250.0000	ug/L	0		10	
Magnesium		1000.000	1013.000	ug/L	1		10	
Manganese		50.00000	49.90000	ug/L	0		10	
Molybdenum		500.0000	500.0000	ug/L	0		10	
Nickel		250.0000	251.0000	ug/L	0		10	
Selenium		250.0000	249.0000	ug/L	0		10	
Silver		50.00000	53.40000	ug/L	7		10	
Thallium		250.0000	244.0000	ug/L	-2		10	
Titanium		500.0000	508.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	49.20000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901095

Run Name :
Filename : tr212576

Injected : 05-AUG-2003 14:19
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	250.9000	ug/L	0	10	
Antimony		250.0000	243.0000	ug/L	-3	10	
Arsenic		125.0000	132.0000	ug/L	6	10	
Barium		250.0000	251.0000	ug/L	0	10	
Beryllium		25.00000	26.10000	ug/L	4	10	
Cadmium		25.00000	25.80000	ug/L	3	10	
Calcium		500.0000	528.8000	ug/L	6	10	
Chromium		50.00000	50.60000	ug/L	1	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	52.40000	ug/L	5	10	
Iron		250.0000	247.4000	ug/L	-1	10	
Lead		125.0000	128.0000	ug/L	2	10	
Magnesium		500.0000	532.3000	ug/L	6	10	
Manganese		25.00000	25.50000	ug/L	2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	131.0000	ug/L	5	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	27.50000	ug/L	10	10	
Thallium		125.0000	126.0000	ug/L	1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.50000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901107

Run Name :
Filename : tr212588

Injected : 05-AUG-2003 15:10
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	773.8000	ug/L	3	10	
Antimony		750.0000	733.0000	ug/L	-2	10	
Arsenic		375.0000	400.0000	ug/L	7	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	79.70000	ug/L	6	10	
Cadmium		75.00000	78.60000	ug/L	5	10	
Calcium		1500.000	1540.000	ug/L	3	10	
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	385.0000	ug/L	3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	840.1000	ug/L	12	10	1 ***
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1585.000	ug/L	6	10	
Manganese		75.00000	76.80000	ug/L	2	10	
Molybdenum		750.0000	763.0000	ug/L	2	10	
Nickel		375.0000	396.0000	ug/L	6	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	70.20000	ug/L	-6	10	
Thallium		375.0000	380.0000	ug/L	1	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901119

Run Name :
Filename : tr212600

Injected : 05-AUG-2003 15:58
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	479.8000	ug/L	-4	10	
Antimony		500.0000	472.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	1008.000	ug/L	1	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	500.2000	ug/L	0	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	53.10000	ug/L	6	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	49.70000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid- : MET07
Seqnum : 73312901130

Run Name :
Filename : tr212611

Injected : 05-AUG-2003 16:44
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	709.3000	ug/L	-5	10	
Antimony		750.0000	729.0000	ug/L	-3	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1445.000	ug/L	-4	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	736.3000	ug/L	-2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1502.000	ug/L	0	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	383.0000	ug/L	2	10	
Silver		75.00000	71.30000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901137

Run Name :
Filename : tr212618

Injected : 05-AUG-2003 17:16
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	763.4000	ug/L	2	10	
Antimony		750.0000	741.0000	ug/L	-1	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	75.30000	ug/L	0	10	
Calcium		1500.000	1505.000	ug/L	0	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	752.6000	ug/L	0	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1561.000	ug/L	4	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901148

Run Name :
Filename : tr212629

Injected : 05-AUG-2003 18:25
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	501.9000	ug/L	0	10		
Antimony		500.0000	556.0000	ug/L	11	10	1	***
Arsenic		250.0000	259.0000	ug/L	4	10		
Barium		500.0000	490.0000	ug/L	-2	10		
Beryllium		50.00000	50.80000	ug/L	2	10		
Cadmium		50.00000	48.40000	ug/L	-3	10		
Calcium		1000.000	1004.000	ug/L	0	10		
Chromium		100.0000	100.0000	ug/L	0	10		
Cobalt		250.0000	245.0000	ug/L	-2	10		
Copper		100.0000	101.0000	ug/L	1	10		
Iron		500.0000	523.7000	ug/L	5	10		
Lead		250.0000	242.0000	ug/L	-3	10		
Magnesium		1000.000	1010.000	ug/L	1	10		
Manganese		50.00000	49.70000	ug/L	-1	10		
Molybdenum		500.0000	492.0000	ug/L	-2	10		
Nickel		250.0000	249.0000	ug/L	0	10		
Selenium		250.0000	245.0000	ug/L	-2	10		
Silver		50.00000	55.70000	ug/L	11	10	1	***
Thallium		250.0000	241.0000	ug/L	-4	10		
Titanium		500.0000	506.0000	ug/L	1	10		
Vanadium		250.0000	246.0000	ug/L	-2	10		
Zinc		50.00000	49.20000	ug/L	-2	10		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901161

Run Name :
Filename : tr212642

Injected : 05-AUG-2003 19:27
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	753.0000	ug/L	0	10	
Antimony		750.0000	900.0000	ug/L	20	10	1 ***
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	77.90000	ug/L	4	10	
Cadmium		75.00000	74.10000	ug/L	-1	10	
Calcium		1500.000	1537.000	ug/L	2	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	793.0000	ug/L	6	10	
Lead		375.0000	368.0000	ug/L	-2	10	
Magnesium		1500.000	1537.000	ug/L	2	10	
Manganese		75.00000	75.90000	ug/L	1	10	
Molybdenum		750.0000	744.0000	ug/L	-1	10	
Nickel		375.0000	379.0000	ug/L	1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	85.20000	ug/L	14	10	1 ***
Thallium		375.0000	365.0000	ug/L	-3	10	
Titanium		750.0000	764.0000	ug/L	2	10	
Vanadium		375.0000	376.0000	ug/L	0	10	
Zinc		75.00000	74.10000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd : MET07
Seqnum : 73312901173

Run Name :
Filename : tr212654

Injected : 05-AUG-2003 20:23
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	492.3000	ug/L	-2		10	
Antimony		500.0000	559.0000	ug/L	12		10	1 ***
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	494.0000	ug/L	-1		10	
Beryllium		50.00000	51.60000	ug/L	3		10	
Cadmium		50.00000	49.60000	ug/L	-1		10	
Calcium		1000.000	1008.000	ug/L	1		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	249.0000	ug/L	0		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	531.3000	ug/L	6		10	
Lead		250.0000	246.0000	ug/L	-2		10	
Magnesium		1000.000	1018.000	ug/L	2		10	
Manganese		50.00000	50.10000	ug/L	0		10	
Molybdenum		500.0000	493.0000	ug/L	-1		10	
Nickel		250.0000	253.0000	ug/L	1		10	
Selenium		250.0000	248.0000	ug/L	-1		10	
Silver		50.00000	56.10000	ug/L	12		10	1 ***
Thallium		250.0000	243.0000	ug/L	-3		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	249.0000	ug/L	0		10	
Zinc		50.00000	49.50000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901185

Run Name :
Filename : tr212666

Injected : 05-AUG-2003 21:21
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	685.3000	ug/L	-9	10	
Antimony		750.0000	894.0000	ug/L	19	10	1 ***
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	723.0000	ug/L	-4	10	
Beryllium		75.00000	74.00000	ug/L	-1	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1386.000	ug/L	-8	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	143.0000	ug/L	-5	10	
Iron		750.0000	750.7000	ug/L	0	10	
Lead		375.0000	358.0000	ug/L	-5	10	
Magnesium		1500.000	1457.000	ug/L	-3	10	
Manganese		75.00000	70.40000	ug/L	-6	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	79.40000	ug/L	6	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	720.0000	ug/L	-4	10	
Vanadium		375.0000	357.0000	ug/L	-5	10	
Zinc		75.00000	72.70000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901198

Run Name :
Filename : tr212679

Injected : 05-AUG-2003 22:24
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	434.8000	ug/L	-13	10	1 ***
Antimony		500.0000	558.0000	ug/L	12	10	1 ***
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	477.0000	ug/L	-5	10	
Beryllium		50.00000	48.90000	ug/L	-2	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	894.0000	ug/L	-11	10	1 ***
Chromium		100.0000	96.00000	ug/L	-4	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	93.80000	ug/L	-6	10	
Iron		500.0000	497.4000	ug/L	-1	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	961.5000	ug/L	-4	10	
Manganese		50.00000	46.70000	ug/L	-7	10	
Molybdenum		500.0000	474.0000	ug/L	-5	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	51.20000	ug/L	2	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	475.0000	ug/L	-5	10	
Vanadium		250.0000	235.0000	ug/L	-6	10	
Zinc		50.00000	48.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901211

Run Name :
Filename : tr212692

Injected : 05-AUG-2003 23:26
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	669.3000	ug/L	-11	10	1 ***
Antimony		750.0000	874.0000	ug/L	17	10	1 ***
Arsenic		375.0000	366.0000	ug/L	-2	10	
Barium		750.0000	705.0000	ug/L	-6	10	
Beryllium		75.00000	70.40000	ug/L	-6	10	
Cadmium		75.00000	70.20000	ug/L	-6	10	
Calcium		1500.000	1319.000	ug/L	-12	10	1 ***
Chromium		150.0000	141.0000	ug/L	-6	10	
Cobalt		375.0000	351.0000	ug/L	-6	10	
Copper		150.0000	141.0000	ug/L	-6	10	
Iron		750.0000	715.1000	ug/L	-5	10	
Lead		375.0000	346.0000	ug/L	-8	10	
Magnesium		1500.000	1411.000	ug/L	-6	10	
Manganese		75.00000	69.70000	ug/L	-7	10	
Molybdenum		750.0000	691.0000	ug/L	-8	10	
Nickel		375.0000	350.0000	ug/L	-7	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	346.0000	ug/L	-8	10	
Titanium		750.0000	692.0000	ug/L	-8	10	
Vanadium		375.0000	346.0000	ug/L	-8	10	
Zinc		75.00000	69.30000	ug/L	-8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901215

Run Name :
Filename : tr212696

Injected : 05-AUG-2003 23:50
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	453.7000	ug/L	-9	10	
Antimony		500.0000	580.0000	ug/L	16	10	1 ***
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	48.90000	ug/L	-2	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	940.7000	ug/L	-6	10	
Chromium		100.0000	98.30000	ug/L	-2	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	509.9000	ug/L	2	10	
Lead		250.0000	377.0000	ug/L	51	10	1 ***
Magnesium		1000.000	974.0000	ug/L	-3	10	
Manganese		50.00000	49.00000	ug/L	-2	10	
Molybdenum		500.0000	471.0000	ug/L	-6	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	52.50000	ug/L	5	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	481.0000	ug/L	-4	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	47.40000	ug/L	-5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901003
Filename: tr212484

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 05-AUG-2003 07:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[15.100]	60.00000	ug/L	<	RL
Arsenic	[1.2700]	5.000000	ug/L	<	RL
Barium	[0.1320]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[0.4347]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[0.1980]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[4.0400]	20.00000	ug/L	<	RL
Nickel	[0.3850]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[0.3240]	10.00000	ug/L	<	RL
Vanadium	[0.2100]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73312901015
Filename: tr212496

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 08:15

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[9.3500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0960]	10.00000	ug/L	<RL		
Beryllium	[0.1410]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[3.3760]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.0450]	10.00000	ug/L	<RL		
Iron	[6.4310]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[4.5380]	500.0000	ug/L	<RL		
Manganese	[0.1840]	10.00000	ug/L	<RL		
Molybdenum	[3.4000]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.4000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.2900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.9740]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901027
Filename: tr212508

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 09:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<	RL
Antimony	[12.900]	60.00000	ug/L	<	RL	
Arsenic		ND	5.000000	ug/L	<	RL
Barium	[0.1440]	10.00000	ug/L	<	RL	
Beryllium		ND	2.000000	ug/L	<	RL
Cadmium	[0.0140]	5.000000	ug/L	<	RL	
Calcium		ND	500.0000	ug/L	<	RL
Chromium		ND	10.00000	ug/L	<	RL
Cobalt		ND	10.00000	ug/L	<	RL
Copper		ND	10.00000	ug/L	<	RL
Iron		ND	100.0000	ug/L	<	RL
Lead	[0.2530]	3.000000	ug/L	<	RL	
Magnesium		ND	500.0000	ug/L	<	RL
Manganese		ND	10.00000	ug/L	<	RL
Molybdenum	[2.8700]	20.00000	ug/L	<	RL	
Nickel		ND	20.00000	ug/L	<	RL
Selenium		ND	5.000000	ug/L	<	RL
Silver		ND	5.000000	ug/L	<	RL
Thallium		ND	5.000000	ug/L	<	RL
Titanium	[1.3900]	10.00000	ug/L	<	RL	
Vanadium	[0.1850]	10.00000	ug/L	<	RL	
Zinc	[0.4080]	20.00000	ug/L	<	RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901039
Filename: tr212520

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 10:11

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[11.000]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1460]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[3.6880]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.0400]	10.00000	ug/L	<	RL
Copper	[0.5540]	10.00000	ug/L	<	RL
Iron	[4.5240]	100.0000	ug/L	<	RL
Lead	[0.6000]	3.000000	ug/L	<	RL
Magnesium	[3.0720]	500.0000	ug/L	<	RL
Manganese	[0.1310]	10.00000	ug/L	<	RL
Molybdenum	[4.2100]	20.00000	ug/L	<	RL
Nickel	[0.2460]	20.00000	ug/L	<	RL
Selenium	[0.3620]	5.000000	ug/L	<	RL
Silver	[0.3350]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.3100]	10.00000	ug/L	<	RL
Vanadium	[0.2040]	10.00000	ug/L	<	RL
Zinc	[0.1590]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901051
Filename: tr212532

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.800]	60.00000	ug/L	<RL	
Arsenic	[1.6300]	5.000000	ug/L	<RL	
Barium	[0.2940]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0210]	5.000000	ug/L	<RL	
Calcium	[2.1500]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2390]	10.00000	ug/L	<RL	
Copper	[0.6250]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.9960]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[9.2400]	20.00000	ug/L	<RL	
Nickel	[0.4890]	20.00000	ug/L	<RL	
Selenium	[0.9670]	5.000000	ug/L	<RL	
Silver	[0.3220]	5.000000	ug/L	<RL	
Thallium	[0.4480]	5.000000	ug/L	<RL	
Titanium	[1.6500]	10.00000	ug/L	<RL	
Vanadium	[0.3540]	10.00000	ug/L	<RL	
Zinc	[0.3670]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901062
Filename: tr212543

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:53

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[4.5100]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.2190]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[11.680]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[0.7730]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.0200]	3.000000	ug/L	<	RL
Magnesium	[8.9070]	500.0000	ug/L	<	RL
Manganese	[0.1150]	10.00000	ug/L	<	RL
Molybdenum	[2.7700]	20.00000	ug/L	<	RL
Nickel	[0.1340]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.2500]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[0.2800]	10.00000	ug/L	<	RL
Vanadium	[0.0480]	10.00000	ug/L	<	RL
Zinc	[0.1220]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901073
Filename: tr212554

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 12:37

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[25.400]	60.00000	ug/L	<RL	
Arsenic	[0.1590]	5.000000	ug/L	<RL	
Barium	[0.4410]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.2170]	5.000000	ug/L	<RL	
Calcium	[3.1740]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2390]	10.00000	ug/L	<RL	
Copper	[0.5920]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.8530]	3.000000	ug/L	<RL	
Magnesium	[2.4570]	500.0000	ug/L	<RL	
Manganese	[0.0490]	10.00000	ug/L	<RL	
Molybdenum	[15.200]	20.00000	ug/L	<RL	
Nickel	[0.5330]	20.00000	ug/L	<RL	
Selenium	[0.7730]	5.000000	ug/L	<RL	
Silver	[0.2720]	5.000000	ug/L	<RL	
Thallium	[1.5800]	5.000000	ug/L	<RL	
Titanium	[2.1000]	10.00000	ug/L	<RL	
Vanadium	[0.5000]	10.00000	ug/L	<RL	
Zinc	[0.2710]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901085
Filename: tr212566

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 13:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[2.4520]	100.0000	ug/L	<RL	
Antimony	[54.900]	60.00000	ug/L	<RL	
Arsenic	[0.5140]	5.000000	ug/L	<RL	
Barium	[0.3290]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1470]	5.000000	ug/L	<RL	
Calcium	[4.0820]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3140]	10.00000	ug/L	<RL	
Copper	[0.5920]	10.00000	ug/L	<RL	
Iron	[4.1220]	100.0000	ug/L	<RL	
Lead	[0.5740]	3.000000	ug/L	<RL	
Magnesium	[1.7580]	500.0000	ug/L	<RL	
Manganese	[0.1830]	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	[0.3260]	20.00000	ug/L	<RL	
Selenium	[0.7070]	5.000000	ug/L	<RL	
Silver	[0.2560]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5900]	10.00000	ug/L	<RL	
Vanadium	[0.2610]	10.00000	ug/L	<RL	
Zinc	[0.0860]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901096
Filename: tr212577

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 14:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[0.8580]		60.00000	ug/L	<	RL
Arsenic	[1.2100]		5.000000	ug/L	<	RL
Barium	[0.1050]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0680]		5.000000	ug/L	<	RL
Calcium	[3.4510]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.1990]		10.00000	ug/L	<	RL
Copper	[0.3480]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.4930]		3.000000	ug/L	<	RL
Magnesium	[0.1587]		500.0000	ug/L	<	RL
Manganese	[0.0390]		10.00000	ug/L	<	RL
Molybdenum	[1.5800]		20.00000	ug/L	<	RL
Nickel	[0.1020]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.3510]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[0.8350]		10.00000	ug/L	<	RL
Vanadium	[0.1610]		10.00000	ug/L	<	RL
Zinc	[0.3900]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901108
Filename: tr212589

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 15:14

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[7.7010]	100.0000	ug/L	<RL	
Antimony	[3.6200]	60.00000	ug/L	<RL	
Arsenic	[0.4480]	5.000000	ug/L	<RL	
Barium	[0.3490]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0190]	5.000000	ug/L	<RL	
Calcium	[8.1660]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1460]	10.00000	ug/L	<RL	
Copper	[0.4490]	10.00000	ug/L	<RL	
Iron	[18.540]	100.0000	ug/L	<RL	
Lead	[0.4120]	3.000000	ug/L	<RL	
Magnesium	[5.4330]	500.0000	ug/L	<RL	
Manganese	[0.4060]	10.00000	ug/L	<RL	
Molybdenum	[4.3600]	20.00000	ug/L	<RL	
Nickel	[0.3900]	20.00000	ug/L	<RL	
Selenium	[0.4000]	5.000000	ug/L	<RL	
Silver	[0.1600]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6300]	10.00000	ug/L	<RL	
Vanadium	[0.2060]	10.00000	ug/L	<RL	
Zinc	[0.4070]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901120
Filename: tr212601

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.0720]	100.0000	ug/L	<RL		
Antimony	[20.000]	60.00000	ug/L	<RL		
Arsenic	[1.8300]	5.000000	ug/L	<RL		
Barium	[0.2790]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[7.7450]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.1570]	10.00000	ug/L	<RL		
Copper	[0.5010]	10.00000	ug/L	<RL		
Iron	[10.330]	100.0000	ug/L	<RL		
Lead	[0.4520]	3.000000	ug/L	<RL		
Magnesium	[3.9950]	500.0000	ug/L	<RL		
Manganese	[0.2930]	10.00000	ug/L	<RL		
Molybdenum	[4.8200]	20.00000	ug/L	<RL		
Nickel	[0.3710]	20.00000	ug/L	<RL		
Selenium	[1.2700]	5.000000	ug/L	<RL		
Silver	[0.5460]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.4200]	10.00000	ug/L	<RL		
Vanadium	[0.3080]	10.00000	ug/L	<RL		
Zinc	[0.4170]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901131
Filename: tr212612

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:51

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.7529]	100.0000	ug/L	<RL		
Antimony	[49.100]	60.00000	ug/L	<RL		
Arsenic	[0.2380]	5.000000	ug/L	<RL		
Barium	[0.3710]	10.00000	ug/L	<RL		
Beryllium	[0.1250]	2.000000	ug/L	<RL		
Cadmium	[0.0010]	5.000000	ug/L	<RL		
Calcium	[3.3490]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0840]	10.00000	ug/L	<RL		
Copper	[0.2190]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.2580]	3.000000	ug/L	<RL		
Magnesium	[2.3960]	500.0000	ug/L	<RL		
Manganese	[0.0810]	10.00000	ug/L	<RL		
Molybdenum	[8.5700]	20.00000	ug/L	<RL		
Nickel	[0.4710]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.9600]	10.00000	ug/L	<RL		
Vanadium	[0.3200]	10.00000	ug/L	<RL		
Zinc	[0.1880]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901138
Filename: tr212619

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 17:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.3430]	100.0000	ug/L	<RL		
Antimony	[7.5200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1900]	10.00000	ug/L	<RL		
Beryllium	[0.0720]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[12.870]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.2390]	10.00000	ug/L	<RL		
Iron	[2.0160]	100.0000	ug/L	<RL		
Lead	[0.1900]	3.000000	ug/L	<RL		
Magnesium	[13.100]	500.0000	ug/L	<RL		
Manganese	[0.1050]	10.00000	ug/L	<RL		
Molybdenum	[3.3000]	20.00000	ug/L	<RL		
Nickel	[0.2120]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.4790]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.4500]	10.00000	ug/L	<RL		
Vanadium	[0.1040]	10.00000	ug/L	<RL		
Zinc	[0.0970]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901150
Filename: tr212631

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 18:36

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[4.9100]	100.0000	ug/L	<	RL
Antimony	[3.3800]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.0720]	10.00000	ug/L	<	RL
Beryllium	[0.3760]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.3140]	10.00000	ug/L	<	RL
Copper	[0.2990]	10.00000	ug/L	<	RL
Iron	[10.920]	100.0000	ug/L	<	RL
Lead	[0.0020]	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.0870]	10.00000	ug/L	<	RL
Molybdenum	[1.2300]	20.00000	ug/L	<	RL
Nickel	[0.3760]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.4890]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[0.6370]	10.00000	ug/L	<	RL
Vanadium	[0.0870]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901163
Filename: tr212644

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 19:38

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[4.3470]	100.0000	ug/L	<RL		
Antimony	[1.6500]	60.00000	ug/L	<RL		
Arsenic	[0.1710]	5.000000	ug/L	<RL		
Barium	[0.0530]	10.00000	ug/L	<RL		
Beryllium	[0.2560]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.3342]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.3560]	10.00000	ug/L	<RL		
Copper	[0.0030]	10.00000	ug/L	<RL		
Iron	[12.490]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.0800]	10.00000	ug/L	<RL		
Molybdenum	[1.6500]	20.00000	ug/L	<RL		
Nickel	[0.2400]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.0520]	5.000000	ug/L	<RL		
Thallium	[2.2400]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.0800]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901175
Filename: tr212656

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 20:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[4.2100]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0660]	10.00000	ug/L	<RL		
Beryllium	[0.6360]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.5553]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.3670]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[12.890]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[0.8153]	500.0000	ug/L	<RL		
Manganese	[0.1010]	10.00000	ug/L	<RL		
Molybdenum	[1.0700]	20.00000	ug/L	<RL		
Nickel	[0.4660]	20.00000	ug/L	<RL		
Selenium	[0.1320]	5.000000	ug/L	<RL		
Silver	[0.1650]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[0.6540]	10.00000	ug/L	<RL		
Vanadium	[0.2320]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901187
Filename: tr212668

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 21:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[1.4400]	60.00000	ug/L	<	RL
Arsenic	[0.5500]	5.000000	ug/L	<	RL
Barium	[0.0390]	10.00000	ug/L	<	RL
Beryllium	[1.4300]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[0.0018]	500.0000	ug/L	<	RL
Chromium	[0.0490]	10.00000	ug/L	<	RL
Cobalt	[0.3460]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[9.9900]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.1130]	10.00000	ug/L	<	RL
Molybdenum	[1.2100]	20.00000	ug/L	<	RL
Nickel	[0.1790]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.1040]	5.000000	ug/L	<	RL
Thallium	[0.1520]	5.000000	ug/L	<	RL
Titanium	[0.7320]	10.00000	ug/L	<	RL
Vanadium	[0.1550]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901200
Filename: tr212681

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 22:35

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[2.2800]	60.00000	ug/L	<RL	
Arsenic	[0.8250]	5.000000	ug/L	<RL	
Barium	[0.0180]	10.00000	ug/L	<RL	
Beryllium	[1.7400]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.0012]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0730]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[8.6940]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.0014]	500.0000	ug/L	<RL	
Manganese	[0.0130]	10.00000	ug/L	<RL	
Molybdenum	[0.6270]	20.00000	ug/L	<RL	
Nickel	[1.0900]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.2450]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.0700]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901213
Filename: tr212694

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 23:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[1.3700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.0400]		10.00000	ug/L	<	RL
Beryllium	[1.1900]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.2470]		10.00000	ug/L	<	RL
Cobalt	[0.2300]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[16.060]		100.0000	ug/L	<	RL
Lead	[1.1200]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	[0.1590]		10.00000	ug/L	<	RL
Molybdenum	[1.4300]		20.00000	ug/L	<	RL
Nickel	[0.3940]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.1270]		5.000000	ug/L	<	RL
Thallium	[1.1700]		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.0580]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901217
Filename: tr212698

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 00:01

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[7.3100]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0410]	10.00000	ug/L	<RL		
Beryllium	[0.8630]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.4447]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2510]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[13.030]	100.0000	ug/L	<RL		
Lead	13.50000	3.000000	ug/L	<RL	d	***
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.0510]	10.00000	ug/L	<RL		
Molybdenum	[1.0900]	20.00000	ug/L	<RL		
Nickel	[0.3920]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.1550]	5.000000	ug/L	<RL		
Thallium	[0.5600]	5.000000	ug/L	<RL		
Titanium	[0.0020]	10.00000	ug/L	<RL		
Vanadium	[0.0490]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901005

Run Name :
Filename : tr212486

Injected : 05-AUG-2003 07:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	474000.0	ug/L	-5		
Antimony	500.0000	458.0000	ug/L	-8	20	
Arsenic	500.0000	494.0000	ug/L	-1	20	
Barium	500.0000	454.0000	ug/L	-9	20	
Beryllium	500.0000	437.0000	ug/L	-13	20	
Cadmium	1000.000	847.0000	ug/L	-15	20	
Calcium	500000.0	378900.0	ug/L	-24		
Chromium	500.0000	424.0000	ug/L	-15	20	
Cobalt	500.0000	420.0000	ug/L	-16	20	
Copper	500.0000	487.0000	ug/L	-3	20	
Iron	200000.0	168400.0	ug/L	-16		
Lead	1000.000	917.0000	ug/L	-8	20	
Magnesium	500000.0	471000.0	ug/L	-6		
Manganese	500.0000	434.0000	ug/L	-13	20	
Molybdenum	500.0000	430.0000	ug/L	-14	20	
Nickel	1000.000	915.0000	ug/L	-9	20	
Selenium	500.0000	471.0000	ug/L	-6	20	
Silver	1000.000	1010.000	ug/L	1	20	
Thallium	500.0000	430.0000	ug/L	-14	20	
Titanium	20000.00	1820.000	ug/L	-91		
Vanadium	500.0000	444.0000	ug/L	-11	20	
Zinc	1000.000	914.0000	ug/L	-9	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901136

Run Name :
Filename : tr212617

Injected : 05-AUG-2003 17:10
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	444600.0	ug/L	-11			
Antimony	500.0000	436.0000	ug/L	-13	20		
Arsenic	500.0000	500.0000	ug/L	0	20		
Barium	500.0000	452.0000	ug/L	-10	20		
Beryllium	500.0000	434.0000	ug/L	-13	20		
Cadmium	1000.000	865.0000	ug/L	-14	20		
Calcium	500000.0	364100.0	ug/L	-27			
Chromium	500.0000	420.0000	ug/L	-16	20		
Cobalt	500.0000	418.0000	ug/L	-16	20		
Copper	500.0000	473.0000	ug/L	-5	20		
Iron	200000.0	161700.0	ug/L	-19			
Lead	1000.000	920.0000	ug/L	-8	20		
Magnesium	500000.0	463700.0	ug/L	-7			
Manganese	500.0000	422.0000	ug/L	-16	20		
Molybdenum	500.0000	426.0000	ug/L	-15	20		
Nickel	1000.000	919.0000	ug/L	-8	20		
Selenium	500.0000	476.0000	ug/L	-5	20		
Silver	1000.000	1060.000	ug/L	6	20		
Thallium	500.0000	432.0000	ug/L	-14	20		
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	438.0000	ug/L	-12	20		
Zinc	1000.000	925.0000	ug/L	-8	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901218

Run Name :
Filename : tr212699

Injected : 06-AUG-2003 00:05
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	439300.0	ug/L	-12		
Antimony	500.0000	545.0000	ug/L	9	20	
Arsenic	500.0000	471.0000	ug/L	-6	20	
Barium	500.0000	433.0000	ug/L	-13	20	
Beryllium	500.0000	397.0000	ug/L	-21	20	# ***
Cadmium	1000.000	795.0000	ug/L	-21	20	# ***
Calcium	500000.0	342500.0	ug/L	-32		
Chromium	500.0000	401.0000	ug/L	-20	20	
Cobalt	500.0000	400.0000	ug/L	-20	20	
Copper	500.0000	461.0000	ug/L	-8	20	
Iron	200000.0	158400.0	ug/L	-21		
Lead	1000.000	855.0000	ug/L	-15	20	
Magnesium	500000.0	439400.0	ug/L	-12		
Manganese	500.0000	416.0000	ug/L	-17	20	
Molybdenum	500.0000	404.0000	ug/L	-19	20	
Nickel	1000.000	847.0000	ug/L	-15	20	
Selenium	500.0000	451.0000	ug/L	-10	20	
Silver	1000.000	1020.000	ug/L	2	20	
Thallium	500.0000	410.0000	ug/L	-18	20	
Titanium	20000.00	1690.000	ug/L	-92		
Vanadium	500.0000	419.0000	ug/L	-16	20	
Zinc	1000.000	851.0000	ug/L	-15	20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901

Instrument: MET07

TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's	Used	>LR
001	tr212482	CS				05-AUG-2003 07:01	1.0	1.0				1		
002	tr212483	ICV				05-AUG-2003 07:05	1.0	1.0				2		
003	tr212484	ICB				05-AUG-2003 07:10	1.0	1.0				3		
004	tr212485	CRI				05-AUG-2003 07:14	1.0	1.0				4		4:AL=474000
005	tr212486	ICSAB				05-AUG-2003 07:18	1.0	1.0						
006	tr212487	BLANK	QC221068			05-AUG-2003 07:27	1.0	50.0						
007	tr212488	BS	QC221069			05-AUG-2003 07:32	1.0	50.0						
008	tr212489	BSD	QC221070			05-AUG-2003 07:36	1.0	50.0						
009	tr212490	MSS	166624-027			05-AUG-2003 07:41	1.0	43.29004	4					3:FE=364800
010	tr212491	SER	QC221073			05-AUG-2003 07:50	5.0	43.29004						
011	tr212492	MS	QC221071			05-AUG-2003 07:54	1.0	41.66667						3:FE=380300
012	tr212493	MSD	QC221072			05-AUG-2003 07:58	1.0	40.0						3:FE=344800
013	tr212494	PDS	QC221275			05-AUG-2003 08:02	1.0	43.29004				5	6	3:FE=372300
014	tr212495	CCV				05-AUG-2003 08:10	1.0	1.0				7		
015	tr212496	CCB				05-AUG-2003 08:15	1.0	1.0						
016	tr212497	SAMPLE	166624-002			05-AUG-2003 08:19	1.0	46.51163						1:FE=148800
017	tr212498	SAMPLE	166624-003			05-AUG-2003 08:23	1.0	47.61905						2:FE=257400
018	tr212499	SAMPLE	166624-004			05-AUG-2003 08:27	1.0	42.19409						3:FE=258600
019	tr212500	SAMPLE	166624-005			05-AUG-2003 08:31	1.0	49.75124						2:FE=225500
020	tr212501	SAMPLE	166624-006			05-AUG-2003 08:35	1.0	39.84064	1					4:FE=254100
021	tr212502	SAMPLE	166624-007			05-AUG-2003 08:39	1.0	38.31418						3:FE=253000
022	tr212503	SAMPLE	166624-006			05-AUG-2003 08:43	10.0	39.84064						
023	tr212504	SAMPLE	166624-001			05-AUG-2003 08:47	1.0	49.01961						1:FE=171200
024	tr212505	SAMPLE	166624-008			05-AUG-2003 08:51	1.0	44.05286						2:FE=241700
025	tr212506	SAMPLE	166624-009			05-AUG-2003 08:55	1.0	45.87156						2:FE=188600
026	tr212507	CCV				05-AUG-2003 09:02	1.0	1.0				8		
027	tr212508	CCB				05-AUG-2003 09:12	1.0	1.0						
028	tr212509	SAMPLE	166543-002			05-AUG-2003 09:19	1.0	1.0						
029	tr212510	SAMPLE	166543-004			05-AUG-2003 09:23	1.0	1.0						
030	tr212511	SAMPLE	166543-006			05-AUG-2003 09:26	1.0	1.0						
031	tr212512	SAMPLE	166543-008			05-AUG-2003 09:30	1.0	1.0						
032	tr212513	SAMPLE	166624-012			05-AUG-2003 09:35	1.0	44.44444						2:FE=175100

Std's used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: McLure Date: 8/13

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr212514	SAMPLE	166624-027	83388	Soil	05-AUG-2003 09:40	10.0	43.10345					
034	tr212515	SAMPLE	166624-013	83375	Soil	05-AUG-2003 09:43	1.0	37.31343					2:FE=269100
035	tr212516	SAMPLE	166624-015	83375	Soil	05-AUG-2003 09:47	1.0	41.15226					3:FE=213500
036	tr212517	SAMPLE	166624-014	83375	Soil	05-AUG-2003 09:55	1.0	44.84305					2:FE=198000
037	tr212518	SAMPLE	166624-016	83375	Soil	05-AUG-2003 09:59	1.0	48.78049					2:FE=217600
038	tr212519	CCV				05-AUG-2003 10:06	1.0	1.0				7	
039	tr212520	CCB				05-AUG-2003 10:11	1.0	1.0					
040	tr212521	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:15	1.0	44.84305	1				3:FE=232200
041	tr212522	SAMPLE	166624-018	83375	Soil	05-AUG-2003 10:19	1.0	49.50495					2:FE=186900
042	tr212523	SAMPLE	166624-019	83375	Soil	05-AUG-2003 10:23	1.0	44.64286					2:FE=166700
043	tr212524	SAMPLE	166624-021	83375	Soil	05-AUG-2003 10:27	1.0	41.66667					2:FE=178000
044	tr212525	SAMPLE	166624-023	83375	Soil	05-AUG-2003 10:31	1.0	43.85965					3:FE=355800
045	tr212526	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:35	10.0	44.84305					
046	tr212527	BLANK	QC21217	83412	Water	05-AUG-2003 10:43	1.0	1.0					
047	tr212528	BS	QC21218	83412	Water	05-AUG-2003 10:47	1.0	1.0					
048	tr212529	BSD	QC21219	83412	Water	05-AUG-2003 10:50	1.0	1.0					173
049	tr212530	MSS	166668-007	83412	Water	05-AUG-2003 10:56	1.0	1.0					
050	tr212531	CCV				05-AUG-2003 11:01	1.0	1.0				8	
051	tr212532	CCB				05-AUG-2003 11:10	1.0	1.0					
052	tr212533	SER	QC21222	83412	Water	05-AUG-2003 11:14	5.0	1.0					
053	tr212534	MS	QC21220	83412	Water	05-AUG-2003 11:18	1.0	1.0					
054	tr212535	MS	QC21220	83412	Water	05-AUG-2003 11:22	1.0	1.0				2	
055	tr212536	MSD	QC21221	83412	Water	05-AUG-2003 11:25	1.0	1.0					
056	tr212537	SAMPLE	166680-001	83412	Water	05-AUG-2003 11:30	1.0	1.0					
057	tr212538	SAMPLE	166680-002	83412	Water	05-AUG-2003 11:33	1.0	1.0					2:CA=154000
058	tr212539	SAMPLE	166681-001	83412	Water	05-AUG-2003 11:37	1.0	1.0					
059	tr212540	SAMPLE	166680-003	83412	Water	05-AUG-2003 11:40	1.0	1.0					2:CA=203100
060	tr212541	SAMPLE	166668-010	83412	Water	05-AUG-2003 11:43	1.0	1.0					
061	tr212542	CCV				05-AUG-2003 11:47	1.0	1.0				7	
062	tr212543	CCB				05-AUG-2003 11:53	1.0	1.0					
063	tr212544	SAMPLE	166673-001	83412	Water	05-AUG-2003 11:57	1.0	1.0					
064	tr212545	SAMPLE	166682-014	83412	Water	05-AUG-2003 12:01	1.0	1.0					

Stds used: 1=03WSI109 2=03WSI149 3=03WSI263 4=03WSI089 5=03SSS286 6=03SSS287 7=03WSI150 8=03WSI151 9=03WSI152

Analyst: Merick Date: 8/10

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212546	BLANK	QC221240	83420	Water	05-AUG-2003 12:04	1.0	1.0					
066	tr212547	BS	QC221241	83420	Water	05-AUG-2003 12:08	1.0	1.0					
067	tr212548	BSD	QC221242	83420	Water	05-AUG-2003 12:11	1.0	1.0					
068	tr212549	MSS	166702-001	83420	Water	05-AUG-2003 12:16	1.0	1.0					
069	tr212550	MS	QC221243	83420	Water	05-AUG-2003 12:19	1.0	1.0					
070	tr212551	MSD	QC221244	83420	Water	05-AUG-2003 12:22	1.0	1.0					
071	tr212552	SAMPLE	166702-010	83420	Water	05-AUG-2003 12:26	1.0	1.0					
072	tr212553	CCV				05-AUG-2003 12:30	1.0	1.0					
073	tr212554	CCB				05-AUG-2003 12:37	1.0	1.0					
074	tr212555	BLANK	QC221255	83422	Soil	05-AUG-2003 12:41	1.0	50.0					
075	tr212556	BS	QC221256	83422	Soil	05-AUG-2003 12:44	1.0	50.0					
076	tr212557	BSD	QC221257	83422	Soil	05-AUG-2003 12:48	1.0	50.0					
077	tr212558	MSS	166645-031	83422	Soil	05-AUG-2003 12:51	1.0	47.61905					
078	tr212559	SER	QC221260	83422	Soil	05-AUG-2003 12:55	5.0	47.61905					
079	tr212560	MS	QC221258	83422	Soil	05-AUG-2003 12:59	1.0	44.24779					
080	tr212561	MSD	QC221259	83422	Soil	05-AUG-2003 13:02	1.0	45.66210					
081	tr212562	SAMPLE	166702-002	83422	Soil	05-AUG-2003 13:06	1.0	44.84305					
082	tr212563	SAMPLE	166702-003	83422	Soil	05-AUG-2003 13:09	1.0	47.84689					
083	tr212564	SAMPLE	166702-004	83422	Soil	05-AUG-2003 13:13	1.0	45.45455					
084	tr212565	CCV				05-AUG-2003 13:20	1.0	1.0					
085	tr212566	CCB				05-AUG-2003 13:26	1.0	1.0					
086	tr212567	SAMPLE	166702-005	83422	Soil	05-AUG-2003 13:30	1.0	43.66812					
087	tr212568	SAMPLE	166702-006	83422	Soil	05-AUG-2003 13:34	1.0	44.05286					
088	tr212569	SAMPLE	166702-007	83422	Soil	05-AUG-2003 13:37	1.0	45.87156					
089	tr212570	SAMPLE	166702-008	83422	Soil	05-AUG-2003 13:41	1.0	44.64286					
090	tr212571	SAMPLE	166702-009	83422	Soil	05-AUG-2003 13:44	1.0	48.30918					
091	tr212572	SAMPLE	166702-011	83422	Soil	05-AUG-2003 13:47	1.0	36.23188					
092	tr212573	SAMPLE	166544-004	83173	Water	05-AUG-2003 13:51	1.0	1.0					
093	tr212574	SAMPLE	166544-008	83173	Water	05-AUG-2003 13:55	1.0	1.0					
094	tr212575	BLANK	QC221075	83377	Soil	05-AUG-2003 14:00	1.0	50.0					
095	tr212576	CCV				05-AUG-2003 14:19	1.0	1.0					
096	tr212577	CCB				05-AUG-2003 14:26	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: MeLu Date: 8/1/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr212578	BS	QC221076	83377	Soil	05-AUG-2003 14:33	1.0	50.0	1				
098	tr212579	BSD	QC221077	83377	Soil	05-AUG-2003 14:37	1.0	50.0	1				
099	tr212580	MSS	166624-032	83377	Soil	05-AUG-2003 14:40	1.0	48.07692	1				1:FE=180100
100	tr212581	SER	QC221080	83377	Soil	05-AUG-2003 14:44	5.0	48.07692					
101	tr212582	MS	QC221078	83377	Soil	05-AUG-2003 14:47	1.0	37.87879					3:FE=228500
102	tr212583	MSD	QC221079	83377	Soil	05-AUG-2003 14:51	1.0	42.19409					2:FE=211000
103	tr212584	MSS	166624-043	83377	Soil	05-AUG-2003 14:54	1.0	49.75124	3				2:FE=194900
104	tr212585	MS	QC221081	83377	Soil	05-AUG-2003 14:58	1.0	41.49378					3:FE=256800
105	tr212586	MSD	QC221082	83377	Soil	05-AUG-2003 15:01	1.0	43.29004					3:FE=229800
106	tr212587	SAMPLE	166624-024	83377	Soil	05-AUG-2003 15:05	1.0	38.46154					3:FE=490700
107	tr212588	CCV				05-AUG-2003 15:10	1.0	1.0	1			8	
108	tr212589	CCB				05-AUG-2003 15:14	1.0	1.0					
109	tr212590	SAMPLE	166624-025	83377	Soil	05-AUG-2003 15:18	1.0	48.78049					2:FE=189800
110	tr212591	SAMPLE	166624-026	83377	Soil	05-AUG-2003 15:22	1.0	46.51163					2:FE=299600
111	tr212592	SAMPLE	166624-028	83377	Soil	05-AUG-2003 15:25	1.0	43.29004					2:FE=209800
112	tr212593	SAMPLE	166624-029	83377	Soil	05-AUG-2003 15:29	1.0	46.72897					1:FE=236600
113	tr212594	SAMPLE	166624-033	83377	Soil	05-AUG-2003 15:32	1.0	39.06250					2:FE=255800
114	tr212595	SAMPLE	166624-034	83377	Soil	05-AUG-2003 15:36	1.0	47.84689					2:FE=246000
115	tr212596	SAMPLE	166624-035	83377	Soil	05-AUG-2003 15:39	1.0	40.81633					3:FE=336900
116	tr212597	SAMPLE	166624-036	83377	Soil	05-AUG-2003 15:43	1.0	42.91845					2:FE=200500
117	tr212598	SAMPLE	166624-039	83377	Soil	05-AUG-2003 15:46	1.0	47.39336					1:FE=178900
118	tr212599	SAMPLE	166624-040	83377	Soil	05-AUG-2003 15:50	1.0	38.16794					3:FE=251700
119	tr212600	CCV				05-AUG-2003 15:58	1.0	1.0				7	
120	tr212601	CCB				05-AUG-2003 16:02	1.0	1.0					
121	tr212602	BLANK	QC221303	83433	Soil	05-AUG-2003 16:05	1.0	50.0					
122	tr212603	BS	QC221304	83433	Soil	05-AUG-2003 16:09	1.0	50.0					
123	tr212604	BSD	QC221305	83433	Soil	05-AUG-2003 16:12	1.0	50.0					
124	tr212605	MSS	166624-030	83433	Soil	05-AUG-2003 16:16	1.0	43.47826	1				1:FE=208700
125	tr212606	SER	QC221308	83433	Soil	05-AUG-2003 16:21	5.0	43.47826					
126	tr212607	MS	QC221306	83433	Soil	05-AUG-2003 16:25	1.0	44.05286	1				1:FE=236300
127	tr212608	MSD	QC221307	83433	Soil	05-AUG-2003 16:28	1.0	42.37288					1:FE=239500
128	tr212609	SAMPLE	166624-031	83433	Soil	05-AUG-2003 16:32	1.0	45.24887					1:FE=148900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SSS286 6=03SSS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: McVee Date: 8/10

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

Begun: 05-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
129	tr212610	SAMPLE	166618-003	83433	Soil	05-AUG-2003 16:36	1.0	48.54369				2:FE=196000	
130	tr212611	CCV				05-AUG-2003 16:44	1.0	1.0				8	
131	tr212612	CCB				05-AUG-2003 16:51	1.0	1.0					
132	tr212613	SAMPLE	166624-042	83377	Soil	05-AUG-2003 16:55	1.0	47.61905				2:FE=208900	
133	tr212614	SAMPLE	166624-044	83377	Soil	05-AUG-2003 16:58	1.0	43.10345				2:FE=234700	
134	tr212615	SAMPLE	166624-045	83377	Soil	05-AUG-2003 17:01	1.0	49.75124				1:FE=183000	
135	tr212616	SAMPLE	166624-046	83377	Soil	05-AUG-2003 17:05	1.0	50.0				2:FE=214700	
136	tr212617	ICSAB				05-AUG-2003 17:10	1.0	1.0				4	4:MG=463700
137	tr212618	CCV				05-AUG-2003 17:16	1.0	1.0				8	
138	tr212619	CCB				05-AUG-2003 17:21	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Melvin Date: 8/15
Page 5 of 5

Method: 6010B Standard: blank

Run Time: 08/06/03 06:58:33

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.000	-.002	-.002	-.003	-.157	.005	.002
SDev	.001	.003	.001	.003	.003	.001	.000
%RSD	311.	130.	37.5	88.4	1.92	18.0	2.89

#1	.000	-.005	-.002	-.005	-.155	.005	.002
#2	-.001	-.000	-.001	-.001	-.159	.006	.002

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.023	.004	.009	.002	-.004	-.012
SDev	.000	.000	.003	.004	.001	.001	.001
%RSD	24.0	1.04	68.8	43.4	45.1	37.2	4.85

#1	-.002	-.023	.002	.012	.001	-.003	-.012
#2	-.001	-.023	.006	.006	.002	-.005	-.011

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.007	-.001	-.000	.031	.1884	.0004
SDev	.001	.002	.000	.001	.000	.0016	.0002
%RSD	42.3	33.2	67.0	182.	.307	.8256	64.28

#1	.004	-.008	-.000	-.001	.031	.1873	.0005
#2	.002	-.005	-.001	.000	.031	.1895	.0002

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0034	.0010	.003	.355
SDev	.0004	.0009	.001	.004
%RSD	12.36	94.28	25.4	.995

#1	-.0031	.0017	.003	.358
#2	-.0037	.0003	.002	.353

Method: 6010B Standard: cst hi
Run Time: 08/06/03 07:03:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.14	1.33	.492	69.3	8.27	2.78	.599
SDev	.08	.04	.001	.1	.02	.01	.000
%RSD	3.68	2.99	.125	.206	.196	.199	.024
#1	2.08	1.30	.491	69.2	8.25	2.77	.599
#2	2.19	1.36	.492	69.4	8.28	2.78	.599
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.70	1.51	1.84	1.92	3.43	4.55	.525
SDev	.00	.00	.00	.01	.02	.01	.007
%RSD	.097	.004	.041	.309	.472	.159	1.39
#1	1.70	1.51	1.84	1.92	3.42	4.55	.530
#2	1.70	1.51	1.84	1.92	3.44	4.56	.520
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.646	.703	.330	2.37	.384	.4723	.7088
SDev	.000	.001	.001	.01	.000	.0014	.0006
%RSD	.058	.101	.186	.227	.061	.2994	.0865
#1	.646	.702	.331	2.37	.384	.4713	.7083
#2	.647	.703	.330	2.38	.384	.4733	.7092
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2955	.4488	2.38	23.4			
SDev	.0004	.0004	.00	.0			
%RSD	.1276	.0945	.081	.152			
#1	.2952	.4485	2.37	23.4			
#2	.2957	.4491	2.38	23.4			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	465.908	.077651	08/06/03 07:03:54
Sb206A	206.832	Multiple	Standards	737.087	1.76901	08/06/03 07:03:54
As1890	189.042	Multiple	Standards	1014.63	1.65722	08/06/03 07:03:54
Ba4934	493.409	Multiple	Standards	14.4377	.046201	08/06/03 07:03:54
Be3130	313.042	Multiple	Standards	11.4698	1.80153	08/06/03 07:03:54
Cd2265	226.502	Multiple	Standards	36.0533	-.198293	08/06/03 07:03:54
Cr2677	267.716	Multiple	Standards	334.897	-.546999	08/06/03 07:03:54
Co2286	228.616	Multiple	Standards	294.072	.519526	08/06/03 07:03:54
Cu3247	324.754	Multiple	Standards	130.879	2.97313	08/06/03 07:03:54
Pb2203	220.351	Multiple	Standards	272.220	-1.02536	08/06/03 07:03:54
Pb220A	220.352	Multiple	Standards	259.615	-2.39712	08/06/03 07:03:54
Mo2020	202.030	Multiple	Standards	291.440	-.456590	08/06/03 07:03:54
Ni2316	231.604	Multiple	Standards	109.546	.416276	08/06/03 07:03:54
Se1960	196.021	Multiple	Standards	932.774	10.8824	08/06/03 07:03:54
Se196A	196.022	Multiple	Standards	776.901	-2.51198	08/06/03 07:03:54
Ag3280	328.068	Multiple	Standards	140.984	.921096	08/06/03 07:03:54
Tl1908	190.864	Multiple	Standards	1520.00	.962664	08/06/03 07:03:54
V_2924	292.402	Multiple	Standards	210.526	.098245	08/06/03 07:03:54
Zn2138	213.856	Multiple	Standards	293.699	-9.02635	08/06/03 07:03:54
Al3082	308.215	Multiple	Standards	3567.77	-672.287	08/06/03 07:03:54
Ca3179	317.933	Multiple	Standards	2823.30	-1.03521	08/06/03 07:03:54
Fe2714	271.441	Multiple	Standards	3488.87	11.9784	08/06/03 07:03:54
Mg2790	279.079	Multiple	Standards	4465.40	-4.46540	08/06/03 07:03:54
Mn2576	257.610	Multiple	Standards	42.1461	-.109580	08/06/03 07:03:54
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Ti3349	334.941	Multiple	Standards	43.3949	-15.4124	08/06/03 07:03:54

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350001

Run Name :
Filename : tr212702

Injected : 06-AUG-2003 07:10
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	997.0000	ug/L	0	5	
Antimony	1000.000	1020.000	ug/L	2	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2014.000	ug/L	1	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	501.0000	ug/L	0	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1001.000	ug/L	0	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2012.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	502.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	508.0000	ug/L	2	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	502.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350002

Run Name :
Filename : tr212703

Injected : 06-AUG-2003 07:15
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	494.4000	ug/L	-1	10
Antimony	500.0000	492.0000	ug/L	-2	10
Arsenic	250.0000	256.0000	ug/L	2	10
Barium	500.0000	495.0000	ug/L	-1	10
Beryllium	50.00000	51.80000	ug/L	4	10
Cadmium	50.00000	49.60000	ug/L	-1	10
Calcium	1000.000	1021.000	ug/L	2	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	250.0000	ug/L	0	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	505.1000	ug/L	1	10
Lead	250.0000	252.0000	ug/L	1	10
Magnesium	1000.000	1034.000	ug/L	3	10
Manganese	50.00000	50.40000	ug/L	1	10
Molybdenum	500.0000	503.0000	ug/L	1	10
Nickel	250.0000	255.0000	ug/L	2	10
Selenium	250.0000	249.0000	ug/L	0	10
Silver	50.00000	50.70000	ug/L	1	10
Thallium	250.0000	248.0000	ug/L	-1	10
Titanium	500.0000	514.0000	ug/L	3	10
Vanadium	250.0000	252.0000	ug/L	1	10
Zinc	50.00000	50.10000	ug/L	0	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD

Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73314350004

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Run Name :  
Filename : tr212705
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Injected : 06-AUG-2003 07:28
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	112.5000	ug/L	13	50
Antimony	60.00000	68.70000	ug/L	15	50
Arsenic	5.000000	5.770000	ug/L	15	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	1.810000	ug/L	-10	50
Cadmium	5.000000	4.790000	ug/L	-4	50
Chromium	10.00000	9.650000	ug/L	-4	50
Cobalt	20.00000	19.40000	ug/L	-3	50
Copper	10.00000	10.20000	ug/L	2	50
Iron	100.0000	106.0000	ug/L	6	50
Lead	3.000000	1.580000	ug/L	-47	50
Manganese	10.00000	9.820000	ug/L	-2	50
Molybdenum	20.00000	19.90000	ug/L	-1	50
Nickel	20.00000	20.10000	ug/L	1	50
Selenium	5.000000	5.890000	ug/L	18	50
Silver	5.000000	5.470000	ug/L	9	50
Thallium	5.000000	4.530000	ug/L	-9	50
Vanadium	10.00000	10.50000	ug/L	5	50
Zinc	20.00000	20.50000	ug/L	3	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350013

Run Name :
Filename : tr212714

Injected : 06-AUG-2003 08:23
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	502.0000	ug/L	0	10	
Antimony		500.0000	540.0000	ug/L	8	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	1034.000	ug/L	3	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	512.7000	ug/L	3	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1042.000	ug/L	4	10	
Manganese		50.00000	50.90000	ug/L	2	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350025

Run Name :
Filename : tr212726

Injected : 06-AUG-2003 09:41
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	759.3000	ug/L	1		10	
Antimony		750.0000	787.0000	ug/L	5		10	
Arsenic		375.0000	385.0000	ug/L	3		10	
Barium		750.0000	746.0000	ug/L	-1		10	
Beryllium		75.00000	78.00000	ug/L	4		10	
Cadmium		75.00000	73.90000	ug/L	-1		10	
Calcium		1500.000	1582.000	ug/L	5		10	
Chromium		150.0000	154.0000	ug/L	3		10	
Cobalt		375.0000	376.0000	ug/L	0		10	
Copper		150.0000	156.0000	ug/L	4		10	
Iron		750.0000	769.4000	ug/L	3		10	
Lead		375.0000	375.0000	ug/L	0		10	
Magnesium		1500.000	1571.000	ug/L	5		10	
Manganese		75.00000	77.20000	ug/L	3		10	
Molybdenum		750.0000	770.0000	ug/L	3		10	
Nickel		375.0000	380.0000	ug/L	1		10	
Selenium		375.0000	367.0000	ug/L	-2		10	
Silver		75.00000	75.60000	ug/L	1		10	
Thallium		375.0000	360.0000	ug/L	-4		10	
Titanium		750.0000	768.0000	ug/L	2		10	
Vanadium		375.0000	380.0000	ug/L	1		10	
Zinc		75.00000	74.10000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350036

Run Name :
Filename : tr212737

Injected : 06-AUG-2003 10:50
Caltpe :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	231.6000	ug/L	-7	10	
Antimony		250.0000	272.0000	ug/L	9	10	
Arsenic		125.0000	122.0000	ug/L	-2	10	
Barium		250.0000	253.0000	ug/L	1	10	
Beryllium		25.00000	23.70000	ug/L	-5	10	
Cadmium		25.00000	24.30000	ug/L	-3	10	
Calcium		500.0000	477.7000	ug/L	-4	10	
Chromium		50.00000	49.50000	ug/L	-1	10	
Cobalt		125.0000	121.0000	ug/L	-3	10	
Copper		50.00000	51.00000	ug/L	2	10	
Iron		250.0000	239.4000	ug/L	-4	10	
Lead		125.0000	119.0000	ug/L	-5	10	
Magnesium		500.0000	482.1000	ug/L	-4	10	
Manganese		25.00000	24.10000	ug/L	-4	10	
Molybdenum		250.0000	244.0000	ug/L	-2	10	
Nickel		125.0000	124.0000	ug/L	-1	10	
Selenium		125.0000	118.0000	ug/L	-6	10	
Silver		25.00000	24.80000	ug/L	-1	10	
Thallium		125.0000	116.0000	ug/L	-7	10	
Titanium		250.0000	251.0000	ug/L	0	10	
Vanadium		125.0000	123.0000	ug/L	-2	10	
Zinc		25.00000	24.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350047

Run Name :
Filename : tr212748

Injected : 06-AUG-2003 11:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	706.6000	ug/L	-6	10	
Antimony		750.0000	750.0000	ug/L	0	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	753.0000	ug/L	0	10	
Beryllium		75.00000	74.00000	ug/L	-1	10	
Cadmium		75.00000	73.20000	ug/L	-2	10	
Calcium		1500.000	1444.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	764.9000	ug/L	2	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1471.000	ug/L	-2	10	
Manganese		75.00000	72.90000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	354.0000	ug/L	-6	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	71.60000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350059

Run Name :
Filename : tr212760

Injected : 06-AUG-2003 12:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	455.5000	ug/L	-9		10	
Antimony		500.0000	482.0000	ug/L	-4		10	
Arsenic		250.0000	243.0000	ug/L	-3		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	48.30000	ug/L	-3		10	
Cadmium		50.00000	48.60000	ug/L	-3		10	
Calcium		1000.000	963.1000	ug/L	-4		10	
Chromium		100.0000	98.50000	ug/L	-2		10	
Cobalt		250.0000	241.0000	ug/L	-4		10	
Copper		100.0000	100.0000	ug/L	0		10	
Iron		500.0000	483.7000	ug/L	-3		10	
Lead		250.0000	250.0000	ug/L	0		10	
Magnesium		1000.000	972.8000	ug/L	-3		10	
Manganese		50.00000	48.00000	ug/L	-4		10	
Molybdenum		500.0000	492.0000	ug/L	-2		10	
Nickel		250.0000	248.0000	ug/L	-1		10	
Selenium		250.0000	231.0000	ug/L	-8		10	
Silver		50.00000	48.80000	ug/L	-2		10	
Thallium		250.0000	239.0000	ug/L	-4		10	
Titanium		500.0000	496.0000	ug/L	-1		10	
Vanadium		250.0000	244.0000	ug/L	-2		10	
Zinc		50.00000	47.10000	ug/L	-6		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350070

Run Name :
Filename : tr212771

Injected : 06-AUG-2003 13:15
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	685.5000	ug/L	-9	10	
Antimony		750.0000	759.0000	ug/L	1	10	
Arsenic		375.0000	372.0000	ug/L	-1	10	
Barium		750.0000	754.0000	ug/L	1	10	
Beryllium		75.00000	74.20000	ug/L	-1	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1443.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	366.0000	ug/L	-2	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1469.000	ug/L	-2	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	357.0000	ug/L	-5	10	
Silver		75.00000	77.70000	ug/L	4	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	745.0000	ug/L	-1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	71.60000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350082

Run Name :
Filename : tr212784

Injected : 06-AUG-2003 14:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	702.1000	ug/L	-6	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	74.40000	ug/L	-1	10	
Cadmium		75.00000	73.00000	ug/L	-3	10	
Calcium		1500.000	1439.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	737.1000	ug/L	-2	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1464.000	ug/L	-2	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	741.0000	ug/L	-1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	352.0000	ug/L	-6	10	
Silver		75.00000	79.10000	ug/L	5	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.40000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350094

Run Name :
Filename : tr212796

Injected : 06-AUG-2003 15:05
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	688.1000	ug/L	-8	10	
Antimony		750.0000	751.0000	ug/L	0	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	72.80000	ug/L	-3	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	711.5000	ug/L	-5	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	349.0000	ug/L	-7	10	
Silver		75.00000	80.40000	ug/L	7	10	
Thallium		375.0000	356.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.20000	ug/L	-5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350003
Filename: tr212704

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 06-AUG-2003 07:23

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[1.2910]	100.0000	ug/L	<RL	
Antimony	[2.9100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2400]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.2810]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2060]	10.00000	ug/L	<RL	
Copper	[0.0450]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.7860]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.6900]	20.00000	ug/L	<RL	
Nickel	[0.3930]	20.00000	ug/L	<RL	
Selenium	[4.1100]	5.000000	ug/L	<RL	
Silver	[0.3740]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.3890]	10.00000	ug/L	<RL	
Vanadium	[0.2940]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350014
Filename: tr212715

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 08:27

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<	RL
Antimony	[3.9700]	60.0000	00	ug/L	<	RL
Arsenic		ND	5.000000	ug/L	<	RL
Barium	[0.1060]	10.0000	00	ug/L	<	RL
Beryllium		ND	2.000000	ug/L	<	RL
Cadmium		ND	5.000000	ug/L	<	RL
Calcium	[1.1290]	500.0000	00	ug/L	<	RL
Chromium		ND	10.00000	ug/L	<	RL
Cobalt		ND	10.00000	ug/L	<	RL
Copper	[0.0590]	10.0000	00	ug/L	<	RL
Iron	[3.1380]	100.0000	00	ug/L	<	RL
Lead		ND	3.000000	ug/L	<	RL
Magnesium	[2.0840]	500.0000	00	ug/L	<	RL
Manganese	[0.0560]	10.0000	00	ug/L	<	RL
Molybdenum	[2.1600]	20.0000	00	ug/L	<	RL
Nickel	[0.1390]	20.0000	00	ug/L	<	RL
Selenium	[3.2400]	5.000000	00	ug/L	<	RL
Silver	[0.2160]	5.000000	00	ug/L	<	RL
Thallium	[3.8300]	5.000000	00	ug/L	<	RL
Titanium		ND	10.00000	ug/L	<	RL
Vanadium		ND	10.00000	ug/L	<	RL
Zinc		ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350026
Filename: tr212727

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 09:44

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.2183]	100.0000	ug/L	<RL		
Antimony	[5.7700]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2300]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0040]	5.000000	ug/L	<RL		
Calcium	[0.6589]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4370]	10.00000	ug/L	<RL		
Copper	[0.4220]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.2740]	500.0000	ug/L	<RL		
Manganese	[0.0110]	10.00000	ug/L	<RL		
Molybdenum	[4.9900]	20.00000	ug/L	<RL		
Nickel	[0.4680]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.8200]	5.000000	ug/L	<RL		
Titanium	[1.2800]	10.00000	ug/L	<RL		
Vanadium	[0.2280]	10.00000	ug/L	<RL		
Zinc	[0.1520]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350037
Filename: tr212738

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 10:57

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[2.1300]	60.00000	ug/L	<RL	
Arsenic	[0.3450]	5.000000	ug/L	<RL	
Barium	[0.1000]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.4354]	500.0000	ug/L	<RL	
Chromium	[0.1570]	10.00000	ug/L	<RL	
Cobalt	[0.3470]	10.00000	ug/L	<RL	
Copper	[0.7360]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.6982]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[0.8670]	20.00000	ug/L	<RL	
Nickel	[0.7410]	20.00000	ug/L	<RL	
Selenium	[0.4420]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.4380]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350048
Filename: tr212749

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 11:45

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.6390]	100.0000		ug/L	<RL	
Antimony	[13.300]	60.00000		ug/L	<RL	
Arsenic	ND	5.000000		ug/L	<RL	
Barium	[0.3390]	10.00000		ug/L	<RL	
Beryllium	ND	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	[6.8070]	500.0000		ug/L	<RL	
Chromium	[0.0330]	10.00000		ug/L	<RL	
Cobalt	[0.4820]	10.00000		ug/L	<RL	
Copper	[0.9730]	10.00000		ug/L	<RL	
Iron	[11.060]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	[3.0760]	500.0000		ug/L	<RL	
Manganese	[0.1690]	10.00000		ug/L	<RL	
Molybdenum	[6.3000]	20.00000		ug/L	<RL	
Nickel	[0.6500]	20.00000		ug/L	<RL	
Selenium	[0.4350]	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	[2.7800]	5.000000		ug/L	<RL	
Titanium	[1.6300]	10.00000		ug/L	<RL	
Vanadium	[0.3650]	10.00000		ug/L	<RL	
Zinc	ND	20.00000		ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350060
Filename: tr212761

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 12:34

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[0.2085]	100.0000	ug/L	<	RL
Antimony	[8.3900]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.0990]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[0.6105]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.2220]	10.00000	ug/L	<	RL
Copper	[0.6460]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.4100]	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[1.6600]	20.00000	ug/L	<	RL
Nickel	[0.5110]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[1.2700]	5.000000	ug/L	<	RL
Titanium	ND	10.00000	ug/L	<	RL
Vanadium	[0.1030]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350071
Filename: tr212772

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 13:19

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	[13.900]	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.2770]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[1.8330]	500.0000		ug/L	<	RL
Chromium	[0.0670]	10.00000		ug/L	<	RL
Cobalt	[0.3950]	10.00000		ug/L	<	RL
Copper	[0.8620]	10.00000		ug/L	<	RL
Iron	[1.5260]	100.0000		ug/L	<	RL
Lead	[0.9050]	3.000000		ug/L	<	RL
Magnesium	[0.2800]	500.0000		ug/L	<	RL
Manganese	[0.0080]	10.00000		ug/L	<	RL
Molybdenum	[6.3100]	20.00000		ug/L	<	RL
Nickel	[0.6780]	20.00000		ug/L	<	RL
Selenium	[0.6850]	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	[3.0200]	5.000000		ug/L	<	RL
Titanium	[0.3510]	10.00000		ug/L	<	RL
Vanadium	[0.3760]	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350083
Filename: tr212785

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 14:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.3810]	100.0000	ug/L	<RL		
Antimony	[22.900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.3960]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[3.7540]	500.0000	ug/L	<RL		
Chromium	[0.3020]	10.00000	ug/L	<RL		
Cobalt	[0.3950]	10.00000	ug/L	<RL		
Copper	[1.1700]	10.00000	ug/L	<RL		
Iron	[13.980]	100.0000	ug/L	<RL		
Lead	[0.4270]	3.000000	ug/L	<RL		
Magnesium	[4.0540]	500.0000	ug/L	<RL		
Manganese	[0.1690]	10.00000	ug/L	<RL		
Molybdenum	[9.6800]	20.00000	ug/L	<RL		
Nickel	[0.7860]	20.00000	ug/L	<RL		
Selenium	[0.2330]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.3800]	10.00000	ug/L	<RL		
Vanadium	[0.4500]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350095
Filename: tr212797

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 15:12

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[12.300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.2680]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[2.5300]	500.0000	ug/L	<	RL
Chromium	[0.2130]	10.00000	ug/L	<	RL
Cobalt	[0.3470]	10.00000	ug/L	<	RL
Copper	[0.9870]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[0.0120]	3.000000	ug/L	<	RL
Magnesium	[0.9781]	500.0000	ug/L	<	RL
Manganese	[0.0540]	10.00000	ug/L	<	RL
Molybdenum	[3.5400]	20.00000	ug/L	<	RL
Nickel	[0.8950]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	[0.0250]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[0.2570]	10.00000	ug/L	<	RL
Vanadium	[0.4380]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350005

Run Name :
Filename : tr212706

Injected : 06-AUG-2003 07:43
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	465200.0	ug/L	-7			
Antimony	500.0000	466.0000	ug/L	-7		20	
Arsenic	500.0000	481.0000	ug/L	-4		20	
Barium	500.0000	450.0000	ug/L	-10		20	
Beryllium	500.0000	426.0000	ug/L	-15		20	
Cadmium	1000.000	820.0000	ug/L	-18		20	
Calcium	500000.0	376200.0	ug/L	-25			
Chromium	500.0000	414.0000	ug/L	-17		20	
Cobalt	500.0000	410.0000	ug/L	-18		20	
Copper	500.0000	485.0000	ug/L	-3		20	
Iron	200000.0	164000.0	ug/L	-18			
Lead	1000.000	896.0000	ug/L	-10		20	
Magnesium	500000.0	465700.0	ug/L	-7			
Manganese	500.0000	429.0000	ug/L	-14		20	
Molybdenum	500.0000	436.0000	ug/L	-13		20	
Nickel	1000.000	889.0000	ug/L	-11		20	
Selenium	500.0000	456.0000	ug/L	-9		20	
Silver	1000.000	888.0000	ug/L	-11		20	
Thallium	500.0000	416.0000	ug/L	-17		20	
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	432.0000	ug/L	-14		20	
Zinc	1000.000	882.0000	ug/L	-12		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350093

Run Name :
Filename : tr212795

Injected : 06-AUG-2003 14:48
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	445100.0	ug/L	-11			
Antimony	500.0000	438.0000	ug/L	-12		20	
Arsenic	500.0000	465.0000	ug/L	-7		20	
Barium	500.0000	462.0000	ug/L	-8		20	
Beryllium	500.0000	418.0000	ug/L	-16		20	
Cadmium	1000.000	807.0000	ug/L	-19		20	
Calcium	500000.0	358400.0	ug/L	-28			
Chromium	500.0000	414.0000	ug/L	-17		20	
Cobalt	500.0000	405.0000	ug/L	-19		20	
Copper	500.0000	487.0000	ug/L	-3		20	
Iron	200000.0	157700.0	ug/L	-21			
Lead	1000.000	892.0000	ug/L	-11		20	
Magnesium	500000.0	442200.0	ug/L	-12			
Manganese	500.0000	422.0000	ug/L	-16		20	
Molybdenum	500.0000	425.0000	ug/L	-15		20	
Nickel	1000.000	887.0000	ug/L	-11		20	
Selenium	500.0000	430.0000	ug/L	-14		20	
Silver	1000.000	960.0000	ug/L	-4		20	
Thallium	500.0000	417.0000	ug/L	-17		20	
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	431.0000	ug/L	-14		20	
Zinc	1000.000	867.0000	ug/L	-13		20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr212702	CS	QC221247	83421	Soil	06-AUG-2003 07:10 1.0	1.0	1.0				1	
002	tr212703	ICV	QC221248	83421	Soil	06-AUG-2003 07:15 1.0	1.0	1.0				2	
003	tr212704	ICB	QC221249	83421	Soil	06-AUG-2003 07:23 1.0	1.0	1.0				3	
004	tr212705	CRI	QC221250	83421	Soil	06-AUG-2003 07:28 1.0	1.0	1.0				4	4:MG=465700
005	tr212706	ICSAB	QC221252	83421	Soil	06-AUG-2003 07:43 1.0	1.0	50.0					
006	tr212707	BS	QC221253	83421	Soil	06-AUG-2003 07:49 1.0	50.0	50.0					
007	tr212708	BSD	QC221255	83421	Soil	06-AUG-2003 07:53 1.0	50.0	37.73585					
008	tr212709	MS	QC221256	83421	Soil	06-AUG-2003 07:57 1.0	1.0	48.54369	1	2			2:FE=213000
009	tr212710	MSD	QC221257	83421	Soil	06-AUG-2003 08:01 1.0	1.0	41.15226					2:FE=202200
010	tr212711	MS	QC221258	83421	Soil	06-AUG-2003 08:05 1.0	1.0	44.24779					2:FE=161500
011	tr212712	MSD	QC221259	83421	Soil	06-AUG-2003 08:08 1.0	50.0	50.0					2:FE=163900
012	tr212713	BLANK	QC221389	83456	Soil	06-AUG-2003 08:19 1.0	1.0	1.0				5	
013	tr212714	CCV	QC221390	83456	Soil	06-AUG-2003 08:23 1.0	1.0	50.0					
014	tr212715	CCB	QC221391	83456	Soil	06-AUG-2003 08:27 1.0	50.0	50.0					
015	tr212716	BS	QC221392	83456	Soil	06-AUG-2003 08:32 1.0	50.0	45.04505	1				1:FE=1531000
016	tr212717	BSD	QC221412	83456	Soil	06-AUG-2003 08:36 1.0	1.0	47.84689					2:FE=177500
017	tr212718	MSS	QC221393	83456	Soil	06-AUG-2003 08:41 1.0	1.0	42.91845					2:FE=204500
018	tr212719	SER	QC221394	83456	Soil	06-AUG-2003 08:52 5.0	1.0	47.39336		1			2:FE=160000
019	tr212720	MS	QC221395	83456	Soil	06-AUG-2003 09:00 1.0	1.0	39.84064					1:FE=161900
020	tr212721	MSD	QC221396	83456	Soil	06-AUG-2003 09:05 1.0	1.0	49.01961					1:FE=140500
021	tr212722	SAMPLE	QC221397	83456	Soil	06-AUG-2003 09:10 1.0	1.0	45.66210					1:FE=162200
022	tr212723	SAMPLE	QC221398	83456	Soil	06-AUG-2003 09:15 1.0	1.0	1.0				6	
023	tr212724	SAMPLE	QC221399	83456	Soil	06-AUG-2003 09:17 1.0	1.0	1.0					
024	tr212725	SAMPLE	QC221400	83456	Soil	06-AUG-2003 09:19 1.0	1.0	45.04505					
025	tr212726	CCV	QC221401	83456	Soil	06-AUG-2003 09:21 1.0	1.0	44.84305				7	2:FE=167200
026	tr212727	CCB	QC221402	83456	Soil	06-AUG-2003 09:23 1.0	1.0	48.07692					2:FE=192500
027	tr212728	PDS	QC221403	83456	Soil	06-AUG-2003 09:25 1.0	1.0	40.32258					1:FE=159100
028	tr212729	SAMPLE	QC221404	83456	Soil	06-AUG-2003 09:27 1.0	1.0	39.37008					3:FE=195400
029	tr212730	SAMPLE	QC221405	83456	Soil	06-AUG-2003 09:29 1.0	1.0	41.15226					2:FE=184100
030	tr212731	SAMPLE	QC221406	83456	Soil	06-AUG-2003 09:31 1.0	1.0						3:FE=188500
031	tr212732	SAMPLE	QC221407	83456	Soil	06-AUG-2003 09:33 1.0	1.0						
032	tr212733	SAMPLE	QC221408	83456	Soil	06-AUG-2003 09:35 1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS286 8=03SSS287 9=03WS1152

Analyst: Merck Date: 8/6/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP

Began: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr212734	SAMPLE	166727-012	83456	Soil	06-AUG-2003 10:35	1.0	48.54369				1:FE=143700	
034	tr212735	SAMPLE	166727-013	83456	Soil	06-AUG-2003 10:39	1.0	44.64286				2:FE=154400	
035	tr212736	BLANK	QC221370	83452	Soil	06-AUG-2003 10:45	1.0	50.0					
036	tr212737	CCV				06-AUG-2003 10:50	1.0	1.0				9	
037	tr212738	CCB				06-AUG-2003 10:57	1.0	1.0					
038	tr212739	BS	QC221371	83452	Soil	06-AUG-2003 11:01	1.0	50.0					
039	tr212740	BSD	QC221372	83452	Soil	06-AUG-2003 11:04	1.0	50.0					
040	tr212741	MSS	166645-025	83452	Soil	06-AUG-2003 11:08	1.0	47.39336	1			1:FE=113600	
041	tr212742	SER	QC221375	83452	Soil	06-AUG-2003 11:13	5.0	47.39336					
042	tr212743	MSS	166645-025	83452	Soil	06-AUG-2003 11:18	10.0	47.39336					
043	tr212744	SER	QC221375	83452	Soil	06-AUG-2003 11:21	50.0	47.39336					
044	tr212745	MS	QC221373	83452	Soil	06-AUG-2003 11:27	1.0	43.47826				1:FE=127400	
045	tr212746	MSD	QC221374	83452	Soil	06-AUG-2003 11:31	1.0	45.24887				1:FE=129400	
046	tr212747	SAMPLE	166645-011	83452	Soil	06-AUG-2003 11:34	1.0	41.49378	1			1:FE=100900	
047	tr212748	CCV				06-AUG-2003 11:41	1.0	1.0				6	
048	tr212749	CCB				06-AUG-2003 11:45	1.0	1.0					
049	tr212750	SAMPLE	166645-018	83452	Soil	06-AUG-2003 11:49	1.0	37.73585	1			1:FE=155000	
050	tr212751	SAMPLE	166645-024	83452	Soil	06-AUG-2003 11:53	1.0	41.32231	1			1:FE=129500	
051	tr212752	SAMPLE	166706-001	83452	Soil	06-AUG-2003 11:56	1.0	34.60208				2:AL=249800	
052	tr212753	SAMPLE	166706-002	83452	Soil	06-AUG-2003 12:00	1.0	49.75124	1			1:PB=55100.0	
053	tr212754	SAMPLE	166706-003	83452	Soil	06-AUG-2003 12:03	1.0	46.29630	2			5:FE=218000	
054	tr212755	SAMPLE	166706-002	83452	Soil	06-AUG-2003 12:07	20.0	49.75124					
055	tr212756	SAMPLE	166706-003	83452	Soil	06-AUG-2003 12:10	20.0	46.29630	1			1:PB=80700.0	
056	tr212757	SAMPLE	166705-001	83452	Soil	06-AUG-2003 12:14	20.0	37.73585					
057	tr212758	SAMPLE	166645-011	83452	Soil	06-AUG-2003 12:18	10.0	41.49378					
058	tr212759	SAMPLE	166645-018	83452	Soil	06-AUG-2003 12:22	10.0	37.73585					
059	tr212760	CCV				06-AUG-2003 12:26	1.0	1.0				5	
060	tr212761	CCB				06-AUG-2003 12:34	1.0	1.0					
061	tr212762	BLANK	QC221383	83455	Water	06-AUG-2003 12:43	1.0	1.0					
062	tr212763	BS	QC221384	83455	Water	06-AUG-2003 12:47	1.0	1.0					
063	tr212764	BSD	QC221385	83455	Water	06-AUG-2003 12:50	1.0	1.0					
064	tr212765	MSS	166726-001	83455	Water	06-AUG-2003 12:54	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS286 8=03SSS287 9=03WS1152

Analyst: Mei Chen Date: 8/6/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350

Instrument: MET07

TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212766	MS	QC221386	83455	Water	06-AUG-2003 12:57	1.0	1.0					
066	tr212767	MSD	QC221387	83455	Water	06-AUG-2003 13:01	1.0	1.0					
067	tr212768	SAMPLE	166726-010	83455	Water	06-AUG-2003 13:04	1.0	1.0					
068	tr212769	SAMPLE	166727-001	83455	Water	06-AUG-2003 13:08	1.0	1.0					
069	tr212770	SAMPLE	166727-014	83455	Water	06-AUG-2003 13:11	1.0	1.0					
070	tr212771	CCV				06-AUG-2003 13:15	1.0	1.0				6	
071	tr212772	CCB				06-AUG-2003 13:19	1.0	1.0					
072	tr212773	SAMPLE	166706-003	83452	Soil	06-AUG-2003 13:23	40.0	46.29630					
073	tr212774	SAMPLE	166645-024	83452	Soil	06-AUG-2003 13:28	10.0	41.32231					
074	tr212775	BLANK	QC221394	83457	Soil	06-AUG-2003 13:34	1.0	50.0					
075	tr212776	BS	QC221395	83457	Soil	06-AUG-2003 13:37	1.0	50.0					
076	tr212777	BSD	QC221396	83457	Soil	06-AUG-2003 13:40	1.0	49.26108	2				
077	tr212778	MSS	166726-002	83457	Soil	06-AUG-2003 13:44	1.0	48.78049					
078	tr212779	MS	QC221397	83457	Soil	06-AUG-2003 13:47	1.0	47.39336					
079	tr212780	MSD	QC221398	83457	Soil	06-AUG-2003 13:51	1.0	42.55319					
080	tr212781	SAMPLE	166726-003	83457	Soil	06-AUG-2003 13:55	1.0	46.29630					
081	tr212782	SAMPLE	166726-004	83457	Soil	06-AUG-2003 14:08	1.0	1.0				6	
082	tr212784	CCV				06-AUG-2003 14:12	1.0	1.0					
083	tr212785	CCB				06-AUG-2003 14:15	5.0	49.26108					
084	tr212786	SER	QC221410	83457	Soil	06-AUG-2003 14:19	1.0	48.07692					
085	tr212787	SAMPLE	166726-005	83457	Soil	06-AUG-2003 14:23	1.0	44.44444					
086	tr212788	SAMPLE	166726-006	83457	Soil	06-AUG-2003 14:26	1.0	47.84689					
087	tr212789	SAMPLE	166726-007	83457	Soil	06-AUG-2003 14:30	1.0	43.29004					
088	tr212790	SAMPLE	166726-008	83457	Soil	06-AUG-2003 14:33	1.0	44.64286					
089	tr212791	SAMPLE	166726-009	83457	Soil	06-AUG-2003 14:37	1.0	43.47826					
090	tr212792	SAMPLE	166726-011	83457	Soil	06-AUG-2003 14:40	1.0	49.01961					
091	tr212793	SAMPLE	166726-012	83457	Soil	06-AUG-2003 14:44	1.0	42.55319					
092	tr212794	SAMPLE	166726-013	83457	Soil	06-AUG-2003 14:48	1.0	1.0				4	
093	tr212795	ICSAB				06-AUG-2003 15:05	1.0	1.0				6	
094	tr212796	CCV				06-AUG-2003 15:12	1.0	1.0					
095	tr212797	CCB				06-AUG-2003 15:12	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS286 8=03SSS287 9=03WS1152

Analyst: McVick Date: 8/6/03

REPORTING SUMMARY FOR 166645 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
166645-001	MET07	08/05/03 18:46	1.0		+		+					+	+									+
166645-002	MET07	08/05/03 18:50	1.0		+		+					+	+									+
166645-003	MET07	08/05/03 18:54	1.0		+		+					+	+									+
166645-004	MET07	08/05/03 18:59	1.0		+		+					+	+									+
166645-005	MET07	08/05/03 19:03	1.0		+		+					+	+									+
166645-007	MET07	08/05/03 19:07	1.0		+		+					+	+									+
166645-008	MET07	08/05/03 17:40	1.0		+		+					+	+									+
166645-009	MET07	08/05/03 19:11	1.0		+		+					+	+									+
166645-010	MET07	08/05/03 19:16	1.0		+		+					+	+									+
166645-011	MET07	08/05/03 22:09	1.0		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
166645-011	MET07	08/06/03 11:34	1.0	+					+													
166645-011	MET07	08/06/03 12:18	10.0																			
166645-012	MET07	08/05/03 19:20	1.0		+		+					+	+									+
166645-013	MET07	08/05/03 19:42	1.0		+		+					+	+									+
166645-014	MET07	08/05/03 18:14	1.0		+		+					+	+									+
166645-015	MET07	08/05/03 19:47	1.0		+		+					+	+									+
166645-016	MET07	08/05/03 19:51	1.0		+		+					+	+									+
166645-017	MET07	08/05/03 19:55	1.0		+		+					+	+									+
166645-018	MET07	08/05/03 22:13	1.0		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
166645-018	MET07	08/06/03 11:49	1.0	+					+													
166645-018	MET07	08/06/03 12:22	10.0										+									
166645-019	MET07	08/05/03 19:59	1.0		+		+					+	+									+
166645-020	MET07	08/05/03 20:04	1.0		+		+					+	+									+
166645-021	MET07	08/05/03 20:08	1.0		+		+					+	+									+
166645-022	MET07	08/05/03 20:12	1.0		+		+					+	+									+
166645-023	MET07	08/05/03 20:16	1.0		+		+					+	+									+
166645-024	MET07	08/05/03 22:17	1.0		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
166645-024	MET07	08/06/03 11:53	1.0	+					+													
166645-024	MET07	08/06/03 13:28	10.0										+									
166645-025	MET07	08/05/03 21:52	1.0		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
166645-025	MET07	08/06/03 11:08	1.0	+					+													

REPORTING SUMMARY FOR 166645 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166645-025	MET07	08/06/03	11:18	10.0									+									
166645-026	MET07	08/05/03	20:39	1.0		+		+					+	+								+
166645-027	MET07	08/05/03	20:43	1.0		+		+					+	+								+
166645-028	MET07	08/05/03	20:47	1.0		+		+					+	+								+
166645-029	MET07	08/05/03	20:52	1.0		+		+					+	+								+
166645-030	MET07	08/05/03	20:56	1.0		+		+					+	+								+
166645-031	MET07	08/05/03	12:51	1.0		+		+					+	+								+
166645-032	MET07	08/05/03	21:00	1.0		+		+					+	+								+
166645-033	MET07	08/05/03	21:04	1.0		+		+					+	+								+
166645-034	MET07	08/05/03	21:09	1.0		+		+					+	+								+
166645-035	MET07	08/05/03	21:13	1.0		+		+					+	+								+
QC221246	MET07	08/05/03	17:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221247	MET07	08/05/03	17:29	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221247	MET07	08/06/03	07:49	1.0		+													+			
QC221248	MET07	08/05/03	17:34	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221248	MET07	08/06/03	07:53	1.0		+													+			
QC221249	MET07	08/05/03	18:05	1.0	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221249	MET07	08/06/03	07:57	1.0		+													+			
QC221250	MET07	08/05/03	18:09	1.0			+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221250	MET07	08/06/03	08:01	1.0		+													+			
QC221251	MET07	08/05/03	17:44	5.0	+	+		+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221252	MET07	08/05/03	18:18	1.0	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221252	MET07	08/06/03	08:05	1.0		+													+			
QC221253	MET07	08/05/03	18:41	1.0	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221253	MET07	08/06/03	08:08	1.0		+													+			
QC221255	MET07	08/05/03	12:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221256	MET07	08/05/03	12:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221257	MET07	08/05/03	12:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221258	MET07	08/05/03	12:59	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221259	MET07	08/05/03	13:02	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166645 METALS Soil


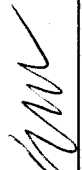
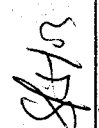

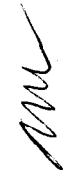

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
QC221260	MET07	08/05/03 12:55	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221370	MET07	08/05/03 21:37	1.0		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
QC221370	MET07	08/06/03 10:45	1.0	+					+													
QC221371	MET07	08/05/03 21:41	1.0			+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
QC221371	MET07	08/06/03 11:01	1.0	+	+				+													
QC221372	MET07	08/05/03 21:46	1.0			+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
QC221372	MET07	08/06/03 11:04	1.0	+	+				+													
QC221373	MET07	08/05/03 22:00	1.0			+	+	+		+	+	+		+	+	+	+	+	+	+	+	+
QC221373	MET07	08/06/03 11:27	1.0	+	+				+				+									
QC221374	MET07	08/05/03 22:04	1.0			+	+	+		+	+	+		+	+	+	+	+	+	+	+	+
QC221374	MET07	08/06/03 11:31	1.0	+	+				+				+									
QC221375	MET07	08/05/03 21:56	5.0																			
QC221375	MET07	08/06/03 11:13	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221375	MET07	08/06/03 11:21	50.0										+									

Curtis & Tompkins Laboratories Sample Preparation Summary 05-AUG-2003 16:30

Batch Number : 83452
 Date Extracted: 05-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050
 Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :
 Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/W	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166645-011		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1				TAL/ICP	
166645-018		Treadwell & Rollo	Soil	2.65	g	100	37.7358	1				TAL/ICP	
166645-024		Treadwell & Rollo	Soil	2.42	g	100	41.3223	1				TAL/ICP	
166645-025		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				TAL/ICP	mss
166684-001		ConocoPhillips Company	Miscell.	2.53	g	100	39.5256	1				V	
166684-002		ConocoPhillips Company	Miscell.	2.47	g	100	40.4858	1				V	
166687-001		ConocoPhillips Company	Miscell.	2.5	g	100	40	1				CU, FE, SE	
166688-001		ConocoPhillips Company	Miscell.	2.48	g	100	40.3225	1				CU, FE, SE	
166699-001		Fugro West Inc.	Soil	2.01	g	100	49.7512	1				PB	
166699-006		Fugro West Inc.	Soil	2.81	g	100	35.5871	1				PB	
166705-001		Innovative Technical Solutions	Soil	2.65	g	100	37.7358	1				PB	
166705-002		Innovative Technical Solutions	Soil	2.06	g	100	48.5436	1				PB	
166705-003		Innovative Technical Solutions	Soil	2.68	g	100	37.3134	1				PB	
166705-004		Innovative Technical Solutions	Soil	2.31	g	100	43.2900	1				PB	
166706-001		Innovative Technical Solutions	Soil	2.89	g	100	34.6020	1				CU, PB, SB	
166706-002		Innovative Technical Solutions	Soil	2.01	g	100	49.7512	1				CU, PB, SB	
166706-003		Innovative Technical Solutions	Soil	2.16	g	100	46.2962	1				CU, PB, SB	
166706-004		Innovative Technical Solutions	Soil	2	g	100	50	1				ICAP	
QC221370	BLANK		Soil	2	g	100	50	1				ICAP	
QC221371	BS		Soil	2	g	100	50	1				ICAP	
QC221372	BSD		Soil	2	g	100	50	1				ICAP	
QC221373	MS		Soil	2.3	g	100	43.4782	1				ICAP	
QC221374	MSD		Soil	2.21	g	100	45.2488	1				ICAP	
QC221375	SER		Soil	2.11	g	100	47.3933	1				ICAP	

of 166645-025
 of 166645-025
 of 166645-025

Prep Chemist:  Reviewed By:  Date: 
 Relinquished By:  Received By:  Date: 

8/05/03

B# 83452

ICAP/3050

Sample	Sample mass(g)	Final Volume	Filtered yes/no	Comments
BK GC 211370	Ø	100.0	yes	<u>Spikes</u>
* BS 211379	↓			* 0355286 (1.00m)
* BS 211372	↓			* 0355287 ↓
* 166685-025MS	A	230		<u>Reagents</u>
* - 025MSD	↓	221		1:1 HNO3 y08024-072303
- 011	↓	241		HNO3 y05050- JTBaker
- 018	↓	265		H2O2 42295317 VWR
- 024	↓	242		1:1 HCL x12028 072303
MS ↓ - 025	↓	211		
166684 001	com ill	253		
↓ - 002	↓	247		
166687-001	↓	250		
166688-001	↓	248		
166705 001	A	265		
↓ 002	↓	276		
↓ 003	↓	268		
↓ 004	↓	231		
166706 001	A	289		
↓ - 002	↓	201		
↓ - 003	↓	216		
166699-001	A	201		
↓ - 006	↓	281		

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Read and Understood By

Signed

08/05/03 209

Date

Signed

8/5/03

Date

Curtis & Tompkins Laboratories

Sample Preparation Summary

04-AUG-2003 23:46

Batch Number : 83421
 Date Extracted: 04-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : 9
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Final D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166645-001		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166645-002		Treadwell & Rollo	Soil	2.5	g	100	40	1				BA, CU, PB, SB, ZN	
166645-003		Treadwell & Rollo	Soil	2.44	g	100	40.9836	1				BA, CU, PB, SB, ZN	
166645-004		Treadwell & Rollo	Soil	2.58	g	100	38.7596	1				BA, CU, PB, SB, ZN	
166645-005		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166645-007		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166645-008		Treadwell & Rollo	Soil	2.47	g	100	40.4858	1				BA, CU, PB, SB, ZN	MISS
166645-009		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1				BA, CU, PB, SB, ZN	
166645-010		Treadwell & Rollo	Soil	2.19	g	100	45.5621	1				BA, CU, PB, SB, ZN	
166645-012		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166645-013		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166645-014		Treadwell & Rollo	Soil	2.59	g	100	38.6100	1				BA, CU, PB, SB, ZN	MISS
166645-015		Treadwell & Rollo	Soil	2.29	g	100	43.5681	1				BA, CU, PB, SB, ZN	
166645-016		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1				BA, CU, PB, SB, ZN	
166645-017		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN	
166645-019		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166645-020		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166645-021		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1				BA, CU, PB, SB, ZN	
166645-022		Treadwell & Rollo	Soil	2.43	g	100	41.1522	1				BA, CU, PB, SB, ZN	
166645-023		Treadwell & Rollo	Soil	2.41	g	100	41.4937	1				BA, CU, PB, SB, ZN	
QC221246	BLANK		Soil	2	g	100	50	1				ICAP	
QC221247	BS		Soil	2	g	100	50	1				ICAP	
QC221248	MS		Soil	2	g	100	50	1				ICAP	
QC221249	MS	of 166645-008	Soil	2.65	g	100	37.7358	1				ICAP	
QC221250	MSD	of 166645-008	Soil	2.06	g	100	48.5436	1				ICAP	
QC221251	SER	of 166645-008	Soil	2.59	g	100	38.6100	1				ICAP	
QC221252	MS	of 166645-014	Soil	2.43	g	100	41.1522	1				ICAP	
QC221253	MSD	of 166645-014	Soil	2.26	g	100	44.2477	1				ICAP	
QC221254	SER	of 166645-014	Soil	2.59	g	100	38.6100	1				ICAP	

Reviewed By:

Received By:

Prep Chemist:

Relinquished By:

Date:

Date:

Date:

Date:

08/04/03	Sample	Sample mass(g)	Final Vol (ml)	# 83421 Filtered yes/no	IOH/13050 Comments
BK QC 221246	Ø	100.0	yes		SPIKES
* BS 221247	↓				* 0355286
* BSD 221248	↓				* 035527
* 166645 008 ms	A 265				
* 008 ms	206				
* 014 ms	243				
* 014 ms	276				
* 001	205				
* 002	230				
* 003	244				
* 004	258				
* 005	201				
* 006					
* 007	217				
* 008	217				
* 009	219				
* 010	219				
* 011					
* 012	201				
* 013	206				
* 014	259				
* 015	229				
* 016	205				
* 017	208				
* 018					
* 019	215				
* 020	217				
* 021	229				
* 022	243				
* 023	241				

Reagents

1:1 HNO₃ Y02024-082303HNO₃ Y05050 - JTBaker

H2O2 RVR 42298817

1:1 HCL Y12028/072303

Continued on Page

Read and Understood By

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08/04/03

Date

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Signed

852

Date

Curtis & Tompkins Laboratories Sample Preparation Summary 06-AUG-2003 10:03

Batch Number : 83422
 Date Extracted by : 04-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Final D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166645-026		Treadwell & Rollo	Soil	2.06	g	100	48.5436	1				BA, CU, PB, SB, ZN	
166645-027		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				BA, CU, PB, SB, ZN	
166645-028		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166645-029		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
166645-030		Treadwell & Rollo	Soil	2.37	g	100	42.1940	1				BA, CU, PB, SB, ZN	
166645-031		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				BA, CU, PB, SB, ZN	mss
166645-032		Treadwell & Rollo	Soil	2.53	g	100	39.5256	1				BA, CU, PB, SB, ZN	
166645-033		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1				BA, CU, PB, SB, ZN	
166645-034		Treadwell & Rollo	Soil	2.08	g	100	48.0769	1				BA, CU, PB, SB, ZN	
166645-035		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166702-002		Presidio Trust	Soil	2.23	g	100	44.8430	1				PB	
166702-003		Presidio Trust	Soil	2.09	g	100	47.8468	1				PB	
166702-004		Presidio Trust	Soil	2.2	g	100	45.4545	1				PB	
166702-005		Presidio Trust	Soil	2.29	g	100	43.6681	1				PB	
166702-006		Presidio Trust	Soil	2.27	g	100	44.0528	1				PB	
166702-007		Presidio Trust	Soil	2.18	g	100	45.8715	1				PB	
166702-008		Presidio Trust	Soil	2.24	g	100	44.6428	1				PB	
166702-009		Presidio Trust	Soil	2.07	g	100	48.3091	1				PB	
166702-011		Presidio Trust	Soil	2.76	g	100	36.2318	1				PB	
QC221255	BLANK		Soil	2	g	100	50	1	1			ICAP	
QC221256	BS		Soil	2	g	100	50	1	1			ICAP	
QC221257	BSD		Soil	2	g	100	50	1	1			ICAP	
QC221258	MS		Soil	2.26	g	100	44.2477	1	1			ICAP	
QC221259	MSD		Soil	2.19	g	100	45.6621	1	1			ICAP	
QC221260	SER		Soil	2.1	g	100	47.6190	1	1			ICAP	

of 166645-031
 of 166645-031
 of 166645-031

Prep Chemist: mw for UV Reviewed By: mw Date: 8/6/03
 Relinquished By: mw Received By: mw Date: 8/6/03

08/04/03

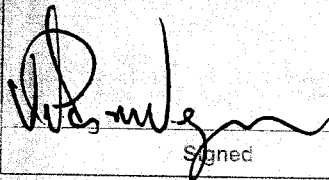
BH 53422

TO AP 500

Sample	masses	Final vol (ml)	Filtered yes/no	Comments
BK QCD 1245	Ø	100.0	yes	SPICES
*BS 221256				*0355286 (1 uml)
*BSO 221257				*0355217
*1666445-031 MS	A	236		
* - 031 MS		219		
- 026		206		
- 027		222		
- 028		211		
- 029		218		
- 030		237		
MS - 031		210		
- 032		253		
- 033		210		
- 034		208		
✓ - 035		211		
166702002	A	223		
- 003		209		
- 004		220		
- 005		229		
- 006		227		
- 007		218		
- 008		224		
- 009		207		
✓ - 010		276		

Reagents
 (1) HNO₃ Y05024-072303
 HNO₃ Y05050 JTBaker
 H₂O₂ VWR 42295317
 (1) HCL Y12028-072303

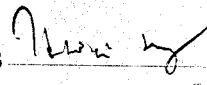
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Signed 

08/04/03

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Read and Understood By

Signed 

8-50

Date

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segment	Sample Number	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83415
 Date: 08/05/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166645-001	11.3296	18.3062	17.8950	94	6
166645-002	11.2095	17.2880	16.8280	92	8
166645-003	15.7816	22.8882	22.7393	98	2
166645-004	14.7206	21.0306	20.8589	97	3
166645-005	15.8188	21.3237	20.9948	94	6
166645-007	15.1368	21.2185	21.0042	96	4
166645-008	11.3805	17.4506	17.2964	97	3
166645-009	15.6245	21.4904	21.3563	98	2
166645-010	15.8896	22.0207	21.8869	98	2
166645-011	11.5215	18.0261	15.0282	54	46
166645-012	10.9844	17.6331	15.8461	73	27
166645-013	15.1751	22.2686	22.1253	98	2
166645-014	11.0858	17.0957	17.0128	99	1
166645-015	10.9620	17.3100	17.1819	98	2
166645-016	15.3749	21.8080	21.7037	98	2
166645-017	15.1909	21.8174	21.7078	98	2
166645-018	15.5913	23.4727	23.3672	99	1
166645-019	15.7754	21.7508	21.6167	98	2
166645-020	11.0649	17.7549	17.6441	98	2
QC221229	15.9946	22.5753	22.1885	94	6
of 166645-001			RPD:	0.0%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83415
 Date Started: 04-AUG-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166645-001		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-002		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-003		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-004		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-005		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-007		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-008		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-009		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-010		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-011		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-012		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-013		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-014		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-015		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-016		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-017		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-018		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-019		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-020		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
QC221229	SDUP	of 166645-001	Soil	MOISTURE	

8/4/03

83415

Sample	Dish #	Tare wt.	Ini. wt.	Fin. wt.	Comments
Blank	12E	11.9687	-	11.9688	
166645 - 1	VII	11.3296	18.7062	17.8950	
- 1 DND	18D	15.9946	11.3045 ^{22.5753} 17.2880	22.1885	
- 2	1V	11.2095	17.2880	16.8280	
- 3	17A	15.7816	22.8882	22.7393	
- 4	4A	14.7206	21.0306	20.8589	
- 5	LOU	15.8188	21.3237	20.6948	
<hr/>					
Rem-6					
- 7	2C	15.1368	21.2185	21.0042	
- 8	10	11.3803	17.4506	17.2964	
- 9	6D	15.6245	21.4904	21.3563	
- 10	1D	15.8696	22.0207	21.8869	
- 11	1	11.5215	18.0261	15.0282	
- 12	10G	10.9844	17.6331	15.8461	
- 13	973A	15.1751	22.2686	22.1253	
- 14	JP	11.0858	17.0957	17.0128	
- 15	VED	10.9628	17.3100	17.1814	
- 16	11A	15.3749	21.8080	21.7037	
- 17	21X	15.1909	21.8174	21.7078	
- 18	9D	15.5913	23.4727	23.3672	
- 19	3Y	15.7754	21.7508	21.6167	
- 20	LS	11.0649	17.7549	17.6441	

OVEN TEMP: 105°C

TIME IN: 11:11 AM

TIME OUT: 8:42 AM

ON: 8/5/03

Continued on Page

Read and Understood By

R. Murray

8/4/03

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L. Dutchman

8/5/03

Signed

Date

Signed

Date

Percent Moisture Summary Report

Batch: 83416
 Date: 08/05/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166645-021	15.3566	21.8437	21.7773	99	1
166645-022	15.3261	21.9900	21.3952	91	9
166645-023	15.4425	21.7136	21.5080	97	3
166645-024	16.0002	23.7720	22.9926	90	10
166645-025	10.9704	17.6480	16.1804	78	22
166645-026	15.3256	21.7513	21.4692	96	4
166645-027	15.3451	21.1657	20.9874	97	3
166645-028	15.2754	22.3992	22.2616	98	2
166645-029	15.3700	22.2176	22.0918	98	2
166645-030	10.9666	16.6545	16.5766	99	1
166645-031	15.4630	21.6880	21.6289	99	1
166645-032	15.9759	23.2715	23.1793	99	1
166645-033	15.0632	23.1414	22.9774	98	2
166645-034	15.3266	21.3852	21.1761	97	3
166645-035	11.1596	17.7016	17.5216	97	3
166668-001	11.7364	17.5221	17.4248	98	2
166668-002	10.9944	17.8072	17.7088	99	1
166668-003	15.9634	22.5069	22.2539	96	4
166668-004	15.8896	22.9790	22.8143	98	2
166668-005	15.8406	22.6009	21.6064	85	15
QC221232	11.1153	17.2032	17.0559	98	2
of 166668-001			RPD:	0.8%	36.0%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83416
 Date Started: 04-AUG-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166645-021		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-022		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-023		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-024		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-025		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-026		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-027		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-028		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-029		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-030		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-031		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-032		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-033		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-034		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-035		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166668-001		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-002		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-003		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-004		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-005		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
QC221232	SDUP	of 166668-001	Soil	MOISTURE	

8/4/03

83416

Sample Dish # Tare wt. Inlet Final wt. Comments

Blank	DOA	15.3252	—	15.3254	
166045-21	70D	15.3566	21.8437	21.7773	
-22 RM 21X	72	15.3261	21.9900	21.3952	
-23 RM 70	21X	15.4215	21.7136	21.5080	
-24 RM 130	72	16.0002	23.7720	22.9926	
-25	213D	10.9704 15.8709 RM	17.6480	16.1804	
-26	Y2	15.3256	21.7513	21.4692	
-27	9A	15.3451	21.1657	20.9874	
-28	113A	15.2754	22.3492	22.2616	
-29	4L	15.3700	22.2176	22.0918	
-30	2AX	10.9666	16.6545	16.5766	
-31	19	15.4630	21.6880	21.6289	
-32	3D	15.9759	23.2715	23.1793	
-33	103	15.8632	23.1414	22.9774	
-34	17C	15.3266	21.3852	21.1761	
-35	V	11.1596	17.7016	17.5216	
166668-1	A1	11.7364	17.5221	17.4248	
-1 DND	II	11.1153	17.2032	17.0559	
-2	12A	10.9944	17.8072	17.7088	
-3	5D	15.9634	22.5069	22.2539	
-4	20D	15.8696	22.9790	22.8143	
-5	15D	15.8406	22.6009	21.6664	

OVEN TEMP: 105 °C

TIME IN: 11:55 A.M.

TIME OUT: 8:56 A.M.

ON: 8/5/03

Continued on Page

R. Manning

8/4/03

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D. D. D.

8/5/03



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166668

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
LCBSB22 [1]	166668-001	LCPSB22 [2]	166668-017
LCBSB22 [2]	166668-002	LCPSB26 [0.3]	166668-018
LCBSB09 [0.3]	166668-003	LCPSB26 [1]	166668-019
LCBSB09 [1]	166668-004	LCPSB15 [1]	166668-020
LCBSB04 [1]	166668-005	LCPSB15 [2]	166668-021
LCBSB04 [0.3]	166668-006	DUP073103E	166668-022
DW073103	166668-007	LCPSB14 [1]	166668-023
LCBSB12 [1]	166668-008	LCPSB14 [2]	166668-024
LCBSB12 [0.3]	166668-009	DUP080103A	166668-025
LCBSB12 [0.3] RB [1]	166668-010	LCPSB09 [1]	166668-026
LCBSB01 [0.3]	166668-011	LCPSB09 [2]	166668-027
LCBSB01 [1]	166668-012	DUP080103B	166668-028
LCPSB23 [0.3]	166668-013	LCPSB08 [1]	166668-029
LCPSB23 [1]	166668-014	LCPSB08 [2]	166668-030
DUP073103D	166668-015	LCPSB10 [1]	166668-031
LCPSB22 [1]	166668-016	LCPSB10 [2] [MSD]	166668-032

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: 
Operations Manager

Date: 8/15/03

Signature: 
Project Manager

Date: 8/15/03

Laboratory Number: **166668**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **08/01/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for two water and thirty soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample BAPSB04 [1] [MSD] (166682-007) for aluminum, iron, manganese, and zinc were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for antimony, barium, copper, lead, selenium, and thallium were outside acceptance limits. The matrix spike recoveries of sample BAPSB16 [0.3] [MSD] (166682-010) for aluminum, iron, and manganese were also not meaningful. Additionally, the matrix spike recoveries of sample BAPSB16 [0.3] [MSD] for antimony, chromium, cobalt, magnesium, nickel, selenium, and zinc, of sample LCPSB10 [2] [MSD] for antimony, of sample BAPSB10 [1] [MSD] (166682-013) for antimony, lead, and zinc, and of sample DUP080103B (166668-028) for antimony, were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The serial dilution sample analyzed on 8/6/03 at 17:53 was outside acceptance limits for cobalt, lead, nickel, and zinc. The serial dilution sample analyzed on 8/7/03 at 12:47 was outside acceptance limits for cobalt and selenium. The serial dilution sample analyzed on 8/7/03 at 12:54 was outside acceptance limits for lead and nickel. The serial dilution sample analyzed on 8/8/03 at 14:09 was outside acceptance limits for arsenic. No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Firing Range

Job Number: 2893-07

Project Manager/Contact: David Chinman

Samplers: DJS/RAL

Recorder (Signature Required): [Signature]

**Normaround
Time**

[illegible]

COC Number: 002851

Pink Copy - Field

Yellow Copy - Laboratory

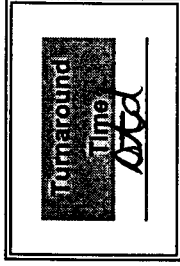
White Copy - Original

CHAIN OF CUSTODY RECORD

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☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Firing Range
 Job Number: 2893.07

Project Manager/Contact: Deirdra Shipman
 Samplers: Deirdra Shipman
 Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							Analysis Requested	Hold	Remarks		
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice				Other	
-15 DUPS 073103D	7-31-03	1516		X											
-16 LCP5822 [1]	7-31-03	1530		X											
-17 LCP5822 [2]	7-31-03	1535		X											LCP5822 [1]
-18 LCP5822 [3]	7-31-03	1547		X											LCP5822 [2]
-19 LCP5822 [4]	7-31-03	1549		X											
-20 LCP5815 [1]	7-31-03	1615		X											
-21 LCP5815 [2]	7-31-03	1625		X											
-22 DUP073103E	7-31-03	1614		X											
-23 LCP5814 [1]	8/1/03	0820		X											
-24 LCP5814 [2]	8/1/03	0822		X											
-25 DUP080103A	8/1/03	0825		X											
-26 LCP5809 [1]	8/1/03	0835		X											
-27 LCP5809 [2]	8/1/03	0839		X											
-28 DUP080103B	8/1/03	1845		X											
Relinquished by: (Signature) <u>[Signature]</u>				Date	8/1/03	Time	1025								
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time									
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time									
Sent to Laboratory (Name): <u>C&T</u>								Method of Shipment: <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS							
Laboratory Comments/Notes:								Hand Carried <input type="checkbox"/> Private Courier (Co. Name)							

1666668

Treadwell & Rollo

Environmental and Geotechnical Consultant

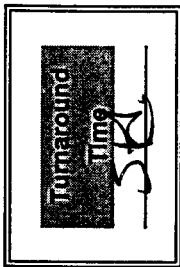
CHAIN OF CUSTODY RECORD

Page 3 of 3

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Firing Ranges
 Job Number: 2873.07

Project Manager/Contact: Orinda Shipman
 Samplers: DSS, RPP
 Recorder (Signature Required): Rhonda Rollo



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative						No. Containers	Analysis Requested				Hold	Remarks					
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃		Ice	Other									
LCPSB08(1)	8/1/03	0847		X																	
LCPSB08(2)	8/1/03	0849		X																	
LCPSB10(1)	8/1/03	0901		X																	
LCPSB10(2)	8/1/03	0907		X																	
OR																					
Relinquished by: (Signature) <u>Rhonda Rollo</u>				Date	8/1/03	Time	1025											Date	8/1/03	Time	1025
Relinquished by: (Signature)				Date		Time												Date		Time	
Relinquished by: (Signature)				Date		Time												Date		Time	
Sent to Laboratory (Name): <u>CTT</u>																					
Laboratory Comments/Notes:																					

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS
☐ Hand Carried ☐ Private Courier (Co. Name)

COC Number: 002850

Pink Copy - Field

Yellow Copy - Laboratory

White Copy - Original

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166668 Date Received: 8-1-03 Number of Coolers: 1
Client: Trendwell & Rollo Project: 2893.07

A. Preliminary Examination Phase

Date Opened: 8-1-03 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... ☒ YES NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO

6. Did you sign the custody papers in the appropriate place?..... ☒ YES NO

7. Was project identifiable from custody papers?..... ☒ YES NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO

Type of ice: wet Temperature: 3.0

B. Login Phase

Date Logged In: 8-1-03 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: 12 ziploc bags w/ ice

2. Did all bottles arrive unbroken?..... ☒ YES NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... ☒ YES NO

4. Did bottle labels agree with custody papers?..... ☒ YES NO

5. Were appropriate containers used for the tests indicated?..... ☒ YES NO

6. Were correct preservatives added to samples?..... ☒ YES NO

7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES NO

9. Was the client contacted concerning this sample delivery?..... YES NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DW073103	Batch#:	83412
Lab ID:	166668-007	Sampled:	07/31/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	6.8	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Iron	130	100
Lead	17	3.0
Magnesium	23,000	500
Manganese	25	10
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	600	20

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221217	Batch#:	83412
Matrix:	Water	Prepared:	08/04/03
Units:	ug/L	Analyzed:	08/05/03

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB12[0.3]RB[1]	Sampled:	07/31/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03
Batch#:	83412		

Type: SAMPLE Lab ID: 166668-010

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC221217

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83412
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: BS Lab ID: QC221218

Analyte	Spiked	Result	%REC	Limits
Aluminum	2,000	1,926	96	80-120
Antimony	500.0	510.0	102	80-120
Arsenic	100.0	92.70	93	80-120
Barium	2,000	1,840	92	80-120
Beryllium	50.00	46.70	93	80-120
Cadmium	50.00	42.20	84	80-120
Chromium	200.0	175.0	88	80-120
Cobalt	500.0	431.0	86	80-120
Copper	250.0	236.0	94	80-120
Iron	1,000	875.7	88	80-120
Lead	100.0	86.00	86	80-120
Magnesium	20,000	17,870	89	80-120
Manganese	50.00	44.20	88	80-120
Nickel	500.0	428.0	86	80-120
Selenium	100.0	87.00	87	80-120
Silver	50.00	48.40	97	80-120
Thallium	100.0	86.80	87	80-120
Vanadium	500.0	454.0	91	80-120
Zinc	500.0	426.0	85	80-120

Type: BSD Lab ID: QC221219

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	2,000	2,022	101	80-120	5	20
Antimony	500.0	530.0	106	80-120	4	20
Arsenic	100.0	94.90	95	80-120	2	20
Barium	2,000	1,890	95	80-120	3	20
Beryllium	50.00	49.40	99	80-120	6	20
Cadmium	50.00	44.60	89	80-120	6	20
Chromium	200.0	185.0	93	80-120	6	20
Cobalt	500.0	454.0	91	80-120	5	20
Copper	250.0	245.0	98	80-120	4	20
Iron	1,000	949.3	95	80-120	8	20
Lead	100.0	91.70	92	80-120	6	20
Magnesium	20,000	19,170	96	80-120	7	20
Manganese	50.00	47.00	94	80-120	6	20
Nickel	500.0	452.0	90	80-120	5	20
Selenium	100.0	87.30	87	80-120	0	20
Silver	50.00	50.40	101	80-120	4	20
Thallium	100.0	89.60	90	80-120	3	20
Vanadium	500.0	475.0	95	80-120	5	20
Zinc	500.0	448.0	90	80-120	5	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83412
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: BS Lab ID: QC221218

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	510.0	102	80-120
Barium	2,000	1,840	92	80-120
Copper	250.0	236.0	94	80-120
Lead	100.0	86.00	86	80-120
Zinc	500.0	426.0	85	80-120

Type: BSD Lab ID: QC221219

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	530.0	106	80-120	4	20
Barium	2,000	1,890	95	80-120	3	20
Copper	250.0	245.0	98	80-120	4	20
Lead	100.0	91.70	92	80-120	6	20
Zinc	500.0	448.0	90	80-120	5	20

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DW073103	Batch#:	83412
MSS Lab ID:	166668-007	Sampled:	07/31/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: MS Lab ID: QC221220

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	<6.100	2,000	1,980	99	75-125
Antimony	<12.00	500.0	528.0	106	75-125
Arsenic	<3.300	100.0	93.90	94	75-125
Barium	8.700	2,000	1,850	92	75-125
Beryllium	<0.1300	50.00	48.40	97	75-125
Cadmium	6.770	50.00	49.70	86	75-125
Chromium	<0.3200	200.0	179.0	90	75-125
Cobalt	<0.7600	500.0	437.0	87	75-125
Copper	3.850	250.0	242.0	95	75-125
Iron	131.2	1,000	1,022	89	75-125
Lead	17.00	100.0	104.0	87	75-125
Magnesium	23,150	20,000	40,800	88	75-125
Manganese	24.80	50.00	68.60	88	75-125
Nickel	2.450	500.0	435.0	87	75-125
Selenium	<3.200	100.0	90.10	90	75-125
Silver	<0.4300	50.00	49.20	98	75-125
Thallium	<1.300	100.0	91.80	92	75-125
Vanadium	1.360	500.0	463.0	92	75-125
Zinc	600.0	500.0	1,000	80	75-125

Type: MSD Lab ID: QC221221

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	2,000	1,981	99	75-125	0	20
Antimony	500.0	526.0	105	75-125	0	20
Arsenic	100.0	94.20	94	75-125	0	20
Barium	2,000	1,850	92	75-125	0	20
Beryllium	50.00	48.50	97	75-125	0	20
Cadmium	50.00	49.50	85	75-125	0	20
Chromium	200.0	179.0	90	75-125	0	20
Cobalt	500.0	438.0	88	75-125	0	20
Copper	250.0	242.0	95	75-125	0	20
Iron	1,000	1,027	90	75-125	0	20
Lead	100.0	104.0	87	75-125	0	20
Magnesium	20,000	40,950	89	75-125	0	20
Manganese	50.00	68.90	88	75-125	0	20
Nickel	500.0	436.0	87	75-125	0	20
Selenium	100.0	89.10	89	75-125	1	20
Silver	50.00	49.50	99	75-125	1	20
Thallium	100.0	86.30	86	75-125	6	20
Vanadium	500.0	464.0	93	75-125	0	20
Zinc	500.0	1,010	82	75-125	1	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DW073103	Batch#:	83412
MSS Lab ID:	166668-007	Sampled:	07/31/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: MS Lab ID: QC221220

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	528.0	106	75-125
Barium	8.700	2,000	1,850	92	75-125
Copper	3.850	250.0	242.0	95	75-125
Lead	17.00	100.0	104.0	87	75-125
Zinc	600.0	500.0	1,000	80	75-125

Type: MSD Lab ID: QC221221

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	526.0	105	75-125	0	20
Barium	2,000	1,850	92	75-125	0	20
Copper	250.0	242.0	95	75-125	0	20
Lead	100.0	104.0	87	75-125	0	20
Zinc	500.0	1,010	82	75-125	1	20

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901049	Seqnum : 73312901052
Filename : tr212530	Filename : tr212533
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166668-007	Samplenum: QC221222
Matrix : Water	Matrix : Water
Batchnum : 83412	Batchnum : 83412
Inj : 05-AUG-2003 10:56	Inj : 05-AUG-2003 11:14
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	ND	100	ND	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	ND	5.00	ND	25.0	--	10	u
Barium	ND	10.0	ND	50.0	--	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	6.77	5.00	ND	25.0	--	10	u
Calcium	19800	500	20400	2500	3	10	u
Chromium	ND	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	131	100	ND	500	--	10	u
Lead	17.0	3.00	16.6	15.0	--	10	u
Magnesium	23200	500	23400	2500	1	10	u
Manganese	24.8	10.0	ND	50.0	--	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	ND	5.00	ND	25.0	--	10	u
Vanadium	ND	10.0	ND	50.0	--	10	u
Zinc	600	20.0	615	100	3	10	u
Titanium	ND	10.0	ND	50.0	--	10	u

u=use

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901049	Seqnum : 73312901052
Filename : tr212530	Filename : tr212533
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166668-007	Samplenum: QC221222
Matrix : Water	Matrix : Water
Batchnum : 83412	Batchnum : 83412
Inj : 05-AUG-2003 10:56	Inj : 05-AUG-2003 11:14
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	ND	100	ND	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	ND	5.00	ND	25.0	--	10	u
Barium	ND	10.0	ND	50.0	--	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	6.77	5.00	ND	25.0	--	10	u
Calcium	19800	500	20400	2500	3	10	u
Chromium	ND	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	131	100	ND	500	--	10	u
Lead	17.0	3.00	16.6	15.0	--	10	u
Magnesium	23200	500	23400	2500	1	10	u
Manganese	24.8	10.0	ND	50.0	--	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	ND	5.00	ND	25.0	--	10	u
Vanadium	ND	10.0	ND	50.0	--	10	u
Zinc	600	20.0	615	100	3	10	u
Titanium	ND	10.0	ND	50.0	--	10	u

u=use

Method: 6010B Standard: blank

Run Time: 08/05/03 06:43:00

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.003	.002	.012	.005	.005
SDev	.003	.002	.000	.001	.001	.005	.001
%RSD	323.	198.	1.79	63.9	10.0	116.	22.4
#1	-.003	-.000	-.003	.001	.013	.001	.006
#2	.001	.003	-.003	.003	.011	.008	.004
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.031	.016	-.001	.001	-.002	-.011
SDev	.000	.000	.004	.008	.004	.000	.001
%RSD	2.67	1.39	27.7	1000.	396.	17.4	9.49
#1	-.002	-.032	.013	.005	.004	-.003	-.012
#2	-.002	-.031	.019	-.006	-.002	-.002	-.010
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.009	-.004	-.002	.000	.032	.1955	.0007
SDev	.002	.003	.001	.000	.000	.0007	.0001
%RSD	26.1	72.0	50.0	566.	.747	.3375	14.14
#1	.010	-.005	-.001	-.000	.032	.1960	.0007
#2	.007	-.002	-.003	.000	.031	.1951	.0006
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0015	.0012	.003	.345			
SDev	.0018	.0002	.000	.001			
%RSD	122.6	15.71	6.43	.246			
#1	-.0002	.0011	.003	.345			
#2	-.0028	.0013	.003	.344			

Method: 6010B Standard: cst hi

Run Time: 08/05/03 06:49:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.33	.483	66.9	7.66	2.73	.549
SDev	.07	.03	.005	.1	.00	.01	.001
%RSD	3.18	2.57	1.13	.104	.045	.353	.094
#1	2.09	1.31	.479	66.9	7.66	2.72	.550
#2	2.18	1.36	.487	67.0	7.67	2.73	.549
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.59	1.37	1.74	1.88	3.33	4.42	.507
SDev	.00	.00	.00	.00	.01	.01	.002
%RSD	.187	.030	.019	.178	.230	.185	.474
#1	1.58	1.37	1.74	1.88	3.32	4.41	.509
#2	1.59	1.37	1.74	1.88	3.33	4.42	.505
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.648	.765	.324	2.19	.376	.4380	.6132
SDev	.003	.003	.003	.00	.001	.0001	.0006
%RSD	.415	.438	.843	.017	.276	.0323	.0999
#1	.649	.762	.326	2.19	.376	.4381	.6127
#2	.646	.767	.322	2.19	.377	.4379	.6136
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2639	.4125	2.07	21.8			
SDev	.0022	.0006	.00	.0			
%RSD	.8216	.1371	.116	.120			
#1	.2655	.4121	2.07	21.8			
#2	.2624	.4129	2.07	21.9			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	466.177	.435099	08/05/03 06:49:13
Sb206A	206.832	Multiple	Standards	735.796	-.858429	08/05/03 06:49:13
As1890	189.042	Multiple	Standards	1031.42	2.71608	08/05/03 06:49:13
Ba4934	493.409	Multiple	Standards	14.9453	-.030887	08/05/03 06:49:13
Be3130	313.042	Multiple	Standards	12.6223	-.148522	08/05/03 06:49:13
Cd2265	226.502	Multiple	Standards	36.7061	-.166401	08/05/03 06:49:13
Cr2677	267.716	Multiple	Standards	367.485	-1.77618	08/05/03 06:49:13
Co2286	228.616	Multiple	Standards	314.795	.556139	08/05/03 06:49:13
Cu3247	324.754	Multiple	Standards	142.448	4.44357	08/05/03 06:49:13
Pb2203	220.351	Multiple	Standards	289.316	-4.58083	08/05/03 06:49:13
Pb220A	220.352	Multiple	Standards	263.472	.201995	08/05/03 06:49:13
Mo2020	202.030	Multiple	Standards	300.752	-.300752	08/05/03 06:49:13
Ni2316	231.604	Multiple	Standards	112.931	.274798	08/05/03 06:49:13
Se1960	196.021	Multiple	Standards	966.158	10.5633	08/05/03 06:49:13
Se196A	196.022	Multiple	Standards	782.009	-6.77741	08/05/03 06:49:13
Ag3280	328.068	Multiple	Standards	130.157	.459890	08/05/03 06:49:13
Tl1908	190.864	Multiple	Standards	1540.32	3.33737	08/05/03 06:49:13
V_2924	292.402	Multiple	Standards	228.504	-.015234	08/05/03 06:49:13
Zn2138	213.856	Multiple	Standards	300.626	-9.48977	08/05/03 06:49:13
Al3082	308.215	Multiple	Standards	4176.87	-816.717	08/05/03 06:49:13
Ca3179	317.933	Multiple	Standards	3265.35	-2.17690	08/05/03 06:49:13
Fe2714	271.441	Multiple	Standards	3928.75	5.89313	08/05/03 06:49:13
Mg2790	279.079	Multiple	Standards	4861.70	-5.83404	08/05/03 06:49:13
Mn2576	257.610	Multiple	Standards	48.4285	-.142057	08/05/03 06:49:13
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Ti3349	334.941	Multiple	Standards	46.5198	-16.0369	08/05/03 06:49:13

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901001

Run Name :
Filename : tr212482

Injected : 05-AUG-2003 07:01
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	996.8000	ug/L	0	5	
Antimony	1000.000	978.0000	ug/L	-2	5	
Arsenic	500.0000	494.0000	ug/L	-1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	99.60000	ug/L	0	5	
Cadmium	100.0000	99.70000	ug/L	0	5	
Calcium	2000.000	1993.000	ug/L	0	5	
Chromium	200.0000	199.0000	ug/L	-1	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	997.3000	ug/L	0	5	
Lead	500.0000	499.0000	ug/L	0	5	
Magnesium	2000.000	1995.000	ug/L	0	5	
Manganese	100.0000	99.50000	ug/L	-1	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	499.0000	ug/L	0	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	497.0000	ug/L	-1	5	
Titanium	1000.000	998.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	99.60000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901002

Run Name :
Filename : tr212483

Injected : 05-AUG-2003 07:05
Caltpe :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	502.9000	ug/L	1	10		
Antimony	500.0000	506.0000	ug/L	1	10		
Arsenic	250.0000	260.0000	ug/L	4	10		
Barium	500.0000	500.0000	ug/L	0	10		
Beryllium	50.00000	52.70000	ug/L	5	10		
Cadmium	50.00000	50.60000	ug/L	1	10		
Calcium	1000.000	1043.000	ug/L	4	10		
Chromium	100.0000	102.0000	ug/L	2	10		
Cobalt	250.0000	255.0000	ug/L	2	10		
Copper	100.0000	103.0000	ug/L	3	10		
Iron	500.0000	534.4000	ug/L	7	10		
Lead	250.0000	256.0000	ug/L	2	10		
Magnesium	1000.000	1065.000	ug/L	7	10		
Manganese	50.00000	51.40000	ug/L	3	10		
Molybdenum	500.0000	511.0000	ug/L	2	10		
Nickel	250.0000	259.0000	ug/L	4	10		
Selenium	250.0000	254.0000	ug/L	2	10		
Silver	50.00000	51.40000	ug/L	3	10		
Thallium	250.0000	254.0000	ug/L	2	10		
Titanium	500.0000	520.0000	ug/L	4	10		
Vanadium	250.0000	254.0000	ug/L	2	10		
Zinc	50.00000	51.00000	ug/L	2	10		

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901004

Run Name :
Filename : tr212485

Injected : 05-AUG-2003 07:14
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	106.9000	ug/L	7	50		
Antimony	60.00000	72.60000	ug/L	21	50		
Arsenic	5.000000	5.660000	ug/L	13	50		
Barium	10.00000	10.10000	ug/L	1	50		
Beryllium	2.000000	1.970000	ug/L	-2	50		
Cadmium	5.000000	4.970000	ug/L	-1	50		
Chromium	10.00000	8.890000	ug/L	-11	50		
Cobalt	20.00000	20.10000	ug/L	1	50		
Copper	10.00000	10.20000	ug/L	2	50		
Iron	100.0000	102.6000	ug/L	3	50		
Lead	3.000000	1.550000	ug/L	-48	50		
Manganese	10.00000	9.990000	ug/L	0	50		
Molybdenum	20.00000	19.50000	ug/L	-3	50		
Nickel	20.00000	21.00000	ug/L	5	50		
Selenium	5.000000	5.500000	ug/L	10	50		
Silver	5.000000	5.140000	ug/L	3	50		
Thallium	5.000000	6.150000	ug/L	23	50		
Vanadium	10.00000	10.50000	ug/L	5	50		
Zinc	20.00000	21.40000	ug/L	7	50		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901014

Run Name :
Filename : tr212495

Injected : 05-AUG-2003 08:10
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	509.1000	ug/L	2	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	261.0000	ug/L	4	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	51.90000	ug/L	4	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	529.2000	ug/L	6	10	
Lead		250.0000	256.0000	ug/L	2	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.60000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901026

Run Name :
Filename : tr212507

Injected : 05-AUG-2003 09:02
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	768.8000	ug/L	3	10	
Antimony		750.0000	770.0000	ug/L	3	10	
Arsenic		375.0000	386.0000	ug/L	3	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	71.80000	ug/L	-4	10	
Calcium		1500.000	1510.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	772.5000	ug/L	3	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	369.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	68.30000	ug/L	-9	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	72.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901038

Run Name :
Filename : tr212519

Injected : 05-AUG-2003 10:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	518.2000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	47.20000	ug/L	-6	10	
Calcium		1000.000	1002.000	ug/L	0	10	
Chromium		100.0000	97.80000	ug/L	-2	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	526.2000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	474.0000	ug/L	-5	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	51.40000	ug/L	3	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901050

Run Name :
Filename : tr212531

Injected : 05-AUG-2003 11:01
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	757.1000	ug/L	1	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	71.00000	ug/L	-5	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	69.90000	ug/L	-7	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901061

Run Name :
Filename : tr212542

Injected : 05-AUG-2003 11:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	515.8000	ug/L	3	10	
Antimony		500.0000	487.0000	ug/L	-3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	479.4000	ug/L	-4	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	490.0000	ug/L	-2	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	53.60000	ug/L	7	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901072

Run Name :
Filename : tr212553

Injected : 05-AUG-2003 12:30
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	760.0000	ug/L	1	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	75.10000	ug/L	0	10	
Cadmium		75.00000	69.70000	ug/L	-7	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	360.0000	ug/L	-4	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	718.2000	ug/L	-4	10	
Lead		375.0000	357.0000	ug/L	-5	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	73.20000	ug/L	-2	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	364.0000	ug/L	-3	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	69.60000	ug/L	-7	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.00000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901084

Run Name :
Filename : tr212565

Injected : 05-AUG-2003 13:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		500.0000	508.0000	ug/L	2	10
Antimony		500.0000	501.0000	ug/L	0	10
Arsenic		250.0000	257.0000	ug/L	3	10
Barium		500.0000	492.0000	ug/L	-2	10
Beryllium		50.00000	50.60000	ug/L	1	10
Cadmium		50.00000	49.10000	ug/L	-2	10
Calcium		1000.000	1001.000	ug/L	0	10
Chromium		100.0000	99.80000	ug/L	0	10
Cobalt		250.0000	247.0000	ug/L	-1	10
Copper		100.0000	102.0000	ug/L	2	10
Iron		500.0000	524.8000	ug/L	5	10
Lead		250.0000	250.0000	ug/L	0	10
Magnesium		1000.000	1013.000	ug/L	1	10
Manganese		50.00000	49.90000	ug/L	0	10
Molybdenum		500.0000	500.0000	ug/L	0	10
Nickel		250.0000	251.0000	ug/L	0	10
Selenium		250.0000	249.0000	ug/L	0	10
Silver		50.00000	53.40000	ug/L	7	10
Thallium		250.0000	244.0000	ug/L	-2	10
Titanium		500.0000	508.0000	ug/L	2	10
Vanadium		250.0000	248.0000	ug/L	-1	10
Zinc		50.00000	49.20000	ug/L	-2	10

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901095

Run Name :
Filename : tr212576

Injected : 05-AUG-2003 14:19
Caltpe :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	250.9000	ug/L	0	10	
Antimony		250.0000	243.0000	ug/L	-3	10	
Arsenic		125.0000	132.0000	ug/L	6	10	
Barium		250.0000	251.0000	ug/L	0	10	
Beryllium		25.00000	26.10000	ug/L	4	10	
Cadmium		25.00000	25.80000	ug/L	3	10	
Calcium		500.0000	528.8000	ug/L	6	10	
Chromium		50.00000	50.60000	ug/L	1	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	52.40000	ug/L	5	10	
Iron		250.0000	247.4000	ug/L	-1	10	
Lead		125.0000	128.0000	ug/L	2	10	
Magnesium		500.0000	532.3000	ug/L	6	10	
Manganese		25.00000	25.50000	ug/L	2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	131.0000	ug/L	5	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	27.50000	ug/L	10	10	
Thallium		125.0000	126.0000	ug/L	1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.50000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901107

Run Name :
Filename : tr212588

Injected : 05-AUG-2003 15:10
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	773.8000	ug/L	3	10	
Antimony		750.0000	733.0000	ug/L	-2	10	
Arsenic		375.0000	400.0000	ug/L	7	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	79.70000	ug/L	6	10	
Cadmium		75.00000	78.60000	ug/L	5	10	
Calcium		1500.000	1540.000	ug/L	3	10	
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	385.0000	ug/L	3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	840.1000	ug/L	12	10	1 ***
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1585.000	ug/L	6	10	
Manganese		75.00000	76.80000	ug/L	2	10	
Molybdenum		750.0000	763.0000	ug/L	2	10	
Nickel		375.0000	396.0000	ug/L	6	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	70.20000	ug/L	-6	10	
Thallium		375.0000	380.0000	ug/L	1	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901119

Run Name :
Filename : tr212600

Injected : 05-AUG-2003 15:58
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	479.8000	ug/L	-4	10	
Antimony		500.0000	472.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	1008.000	ug/L	1	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	500.2000	ug/L	0	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	53.10000	ug/L	6	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	49.70000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901130

Run Name :
Filename : tr212611

Injected : 05-AUG-2003 16:44
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	709.3000	ug/L	-5	10	
Antimony		750.0000	729.0000	ug/L	-3	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1445.000	ug/L	-4	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	736.3000	ug/L	-2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1502.000	ug/L	0	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	383.0000	ug/L	2	10	
Silver		75.00000	71.30000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901137

Run Name :
Filename : tr212618

Injected : 05-AUG-2003 17:16
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	763.4000	ug/L	2	10	
Antimony		750.0000	741.0000	ug/L	-1	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	75.30000	ug/L	0	10	
Calcium		1500.000	1505.000	ug/L	0	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	752.6000	ug/L	0	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1561.000	ug/L	4	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901003
Filename: tr212484

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 05-AUG-2003 07:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.100]	60.00000	ug/L	<RL	
Arsenic	[1.2700]	5.000000	ug/L	<RL	
Barium	[0.1320]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.4347]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1980]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.0400]	20.00000	ug/L	<RL	
Nickel	[0.3850]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.3240]	10.00000	ug/L	<RL	
Vanadium	[0.2100]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901015
Filename: tr212496

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 08:15

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[9.3500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0960]	10.00000	ug/L	<RL		
Beryllium	[0.1410]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[3.3760]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.0450]	10.00000	ug/L	<RL		
Iron	[6.4310]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[4.5380]	500.0000	ug/L	<RL		
Manganese	[0.1840]	10.00000	ug/L	<RL		
Molybdenum	[3.4000]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.4000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.2900]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.9740]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901027
Filename: tr212508

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 09:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[12.900]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1440]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0140]		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.2530]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[2.8700]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.3900]		10.00000	ug/L	<	RL
Vanadium	[0.1850]		10.00000	ug/L	<	RL
Zinc	[0.4080]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73312901039
Filename: tr212520

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 10:11

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[11.000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1460]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.6880]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0400]	10.00000	ug/L	<RL	
Copper	[0.5540]	10.00000	ug/L	<RL	
Iron	[4.5240]	100.0000	ug/L	<RL	
Lead	[0.6000]	3.000000	ug/L	<RL	
Magnesium	[3.0720]	500.0000	ug/L	<RL	
Manganese	[0.1310]	10.00000	ug/L	<RL	
Molybdenum	[4.2100]	20.00000	ug/L	<RL	
Nickel	[0.2460]	20.00000	ug/L	<RL	
Selenium	[0.3620]	5.000000	ug/L	<RL	
Silver	[0.3350]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3100]	10.00000	ug/L	<RL	
Vanadium	[0.2040]	10.00000	ug/L	<RL	
Zinc	[0.1590]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901051
Filename: tr212532

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:10

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[15.800]		60.00000	ug/L	<	RL
Arsenic	[1.6300]		5.000000	ug/L	<	RL
Barium	[0.2940]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	[0.0210]		5.000000	ug/L	<	RL
Calcium	[2.1500]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.2390]		10.00000	ug/L	<	RL
Copper	[0.6250]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[1.9960]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[9.2400]		20.00000	ug/L	<	RL
Nickel	[0.4890]		20.00000	ug/L	<	RL
Selenium	[0.9670]		5.000000	ug/L	<	RL
Silver	[0.3220]		5.000000	ug/L	<	RL
Thallium	[0.4480]		5.000000	ug/L	<	RL
Titanium	[1.6500]		10.00000	ug/L	<	RL
Vanadium	[0.3540]		10.00000	ug/L	<	RL
Zinc	[0.3670]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901062
Filename: tr212543

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:53

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[4.5100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2190]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[11.680]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.7730]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.0200]	3.000000	ug/L	<RL	
Magnesium	[8.9070]	500.0000	ug/L	<RL	
Manganese	[0.1150]	10.00000	ug/L	<RL	
Molybdenum	[2.7700]	20.00000	ug/L	<RL	
Nickel	[0.1340]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.2500]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.2800]	10.00000	ug/L	<RL	
Vanadium	[0.0480]	10.00000	ug/L	<RL	
Zinc	[0.1220]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901073
Filename: tr212554

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 12:37

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[25.400]		60.00000	ug/L	<RL	
Arsenic	[0.1590]		5.000000	ug/L	<RL	
Barium	[0.4410]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	[0.2170]		5.000000	ug/L	<RL	
Calcium	[3.1740]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	[0.2390]		10.00000	ug/L	<RL	
Copper	[0.5920]		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	[0.8530]		3.000000	ug/L	<RL	
Magnesium	[2.4570]		500.0000	ug/L	<RL	
Manganese	[0.0490]		10.00000	ug/L	<RL	
Molybdenum	[15.200]		20.00000	ug/L	<RL	
Nickel	[0.5330]		20.00000	ug/L	<RL	
Selenium	[0.7730]		5.000000	ug/L	<RL	
Silver	[0.2720]		5.000000	ug/L	<RL	
Thallium	[1.5800]		5.000000	ug/L	<RL	
Titanium	[2.1000]		10.00000	ug/L	<RL	
Vanadium	[0.5000]		10.00000	ug/L	<RL	
Zinc	[0.2710]		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901085
Filename: tr212566

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 13:26

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[2.4520]	100.0000	ug/L	<RL	
Antimony	[54.900]	60.00000	ug/L	<RL	
Arsenic	[0.5140]	5.000000	ug/L	<RL	
Barium	[0.3290]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1470]	5.000000	ug/L	<RL	
Calcium	[4.0820]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.3140]	10.00000	ug/L	<RL	
Copper	[0.5920]	10.00000	ug/L	<RL	
Iron	[4.1220]	100.0000	ug/L	<RL	
Lead	[0.5740]	3.000000	ug/L	<RL	
Magnesium	[1.7580]	500.0000	ug/L	<RL	
Manganese	[0.1830]	10.00000	ug/L	<RL	
Molybdenum	[9.4100]	20.00000	ug/L	<RL	
Nickel	[0.3260]	20.00000	ug/L	<RL	
Selenium	[0.7070]	5.000000	ug/L	<RL	
Silver	[0.2560]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.5900]	10.00000	ug/L	<RL	
Vanadium	[0.2610]	10.00000	ug/L	<RL	
Zinc	[0.0860]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901096
Filename: tr212577

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 14:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[0.8580]	60.00000	ug/L	<RL	
Arsenic	[1.2100]	5.000000	ug/L	<RL	
Barium	[0.1050]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0680]	5.000000	ug/L	<RL	
Calcium	[3.4510]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1990]	10.00000	ug/L	<RL	
Copper	[0.3480]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.4930]	3.000000	ug/L	<RL	
Magnesium	[0.1587]	500.0000	ug/L	<RL	
Manganese	[0.0390]	10.00000	ug/L	<RL	
Molybdenum	[1.5800]	20.00000	ug/L	<RL	
Nickel	[0.1020]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.3510]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.8350]	10.00000	ug/L	<RL	
Vanadium	[0.1610]	10.00000	ug/L	<RL	
Zinc	[0.3900]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901108
Filename: tr212589

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 15:14

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[7.7010]	100.0000	ug/L	<RL	
Antimony	[3.6200]	60.00000	ug/L	<RL	
Arsenic	[0.4480]	5.000000	ug/L	<RL	
Barium	[0.3490]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0190]	5.000000	ug/L	<RL	
Calcium	[8.1660]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1460]	10.00000	ug/L	<RL	
Copper	[0.4490]	10.00000	ug/L	<RL	
Iron	[18.540]	100.0000	ug/L	<RL	
Lead	[0.4120]	3.000000	ug/L	<RL	
Magnesium	[5.4330]	500.0000	ug/L	<RL	
Manganese	[0.4060]	10.00000	ug/L	<RL	
Molybdenum	[4.3600]	20.00000	ug/L	<RL	
Nickel	[0.3900]	20.00000	ug/L	<RL	
Selenium	[0.4000]	5.000000	ug/L	<RL	
Silver	[0.1600]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6300]	10.00000	ug/L	<RL	
Vandadium	[0.2060]	10.00000	ug/L	<RL	
Zinc	[0.4070]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901120
Filename: tr212601

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.0720]	100.0000	ug/L	<RL		
Antimony	[20.000]	60.00000	ug/L	<RL		
Arsenic	[1.8300]	5.000000	ug/L	<RL		
Barium	[0.2790]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[7.7450]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.1570]	10.00000	ug/L	<RL		
Copper	[0.5010]	10.00000	ug/L	<RL		
Iron	[10.330]	100.0000	ug/L	<RL		
Lead	[0.4520]	3.000000	ug/L	<RL		
Magnesium	[3.9950]	500.0000	ug/L	<RL		
Manganese	[0.2930]	10.00000	ug/L	<RL		
Molybdenum	[4.8200]	20.00000	ug/L	<RL		
Nickel	[0.3710]	20.00000	ug/L	<RL		
Selenium	[1.2700]	5.000000	ug/L	<RL		
Silver	[0.5460]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.4200]	10.00000	ug/L	<RL		
Vanadium	[0.3080]	10.00000	ug/L	<RL		
Zinc	[0.4170]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901131
Filename: tr212612

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:51

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.7529]	100.0000	ug/L	<RL		
Antimony	[49.100]	60.00000	ug/L	<RL		
Arsenic	[0.2380]	5.000000	ug/L	<RL		
Barium	[0.3710]	10.00000	ug/L	<RL		
Beryllium	[0.1250]	2.000000	ug/L	<RL		
Cadmium	[0.0010]	5.000000	ug/L	<RL		
Calcium	[3.3490]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0840]	10.00000	ug/L	<RL		
Copper	[0.2190]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.2580]	3.000000	ug/L	<RL		
Magnesium	[2.3960]	500.0000	ug/L	<RL		
Manganese	[0.0810]	10.00000	ug/L	<RL		
Molybdenum	[8.5700]	20.00000	ug/L	<RL		
Nickel	[0.4710]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.9600]	10.00000	ug/L	<RL		
Vanadium	[0.3200]	10.00000	ug/L	<RL		
Zinc	[0.1880]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901138
Filename: tr212619

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 17:21

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[2.3430]	100.0000	ug/L	<RL	
Antimony	[7.5200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1900]	10.00000	ug/L	<RL	
Beryllium	[0.0720]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[12.870]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.2390]	10.00000	ug/L	<RL	
Iron	[2.0160]	100.0000	ug/L	<RL	
Lead	[0.1900]	3.000000	ug/L	<RL	
Magnesium	[13.100]	500.0000	ug/L	<RL	
Manganese	[0.1050]	10.00000	ug/L	<RL	
Molybdenum	[3.3000]	20.00000	ug/L	<RL	
Nickel	[0.2120]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.4790]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.4500]	10.00000	ug/L	<RL	
Vanadium	[0.1040]	10.00000	ug/L	<RL	
Zinc	[0.0970]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901005

Run Name :
Filename : tr212486

Injected : 05-AUG-2003 07:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	474000.0	ug/L	-5			
Antimony	500.0000	458.0000	ug/L	-8	20		
Arsenic	500.0000	494.0000	ug/L	-1	20		
Barium	500.0000	454.0000	ug/L	-9	20		
Beryllium	500.0000	437.0000	ug/L	-13	20		
Cadmium	1000.000	847.0000	ug/L	-15	20		
Calcium	500000.0	378900.0	ug/L	-24			
Chromium	500.0000	424.0000	ug/L	-15	20		
Cobalt	500.0000	420.0000	ug/L	-16	20		
Copper	500.0000	487.0000	ug/L	-3	20		
Iron	200000.0	168400.0	ug/L	-16			
Lead	1000.000	917.0000	ug/L	-8	20		
Magnesium	500000.0	471000.0	ug/L	-6			
Manganese	500.0000	434.0000	ug/L	-13	20		
Molybdenum	500.0000	430.0000	ug/L	-14	20		
Nickel	1000.000	915.0000	ug/L	-9	20		
Selenium	500.0000	471.0000	ug/L	-6	20		
Silver	1000.000	1010.000	ug/L	1	20		
Thallium	500.0000	430.0000	ug/L	-14	20		
Titanium	20000.00	1820.000	ug/L	-91			
Vanadium	500.0000	444.0000	ug/L	-11	20		
Zinc	1000.000	914.0000	ug/L	-9	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901136

Run Name :
Filename : tr212617

Injected : 05-AUG-2003 17:10
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	444600.0	ug/L	-11		
Antimony	500.0000	436.0000	ug/L	-13	20	
Arsenic	500.0000	500.0000	ug/L	0	20	
Barium	500.0000	452.0000	ug/L	-10	20	
Beryllium	500.0000	434.0000	ug/L	-13	20	
Cadmium	1000.000	865.0000	ug/L	-14	20	
Calcium	500000.0	364100.0	ug/L	-27		
Chromium	500.0000	420.0000	ug/L	-16	20	
Cobalt	500.0000	418.0000	ug/L	-16	20	
Copper	500.0000	473.0000	ug/L	-5	20	
Iron	200000.0	161700.0	ug/L	-19		
Lead	1000.000	920.0000	ug/L	-8	20	
Magnesium	500000.0	463700.0	ug/L	-7		
Manganese	500.0000	422.0000	ug/L	-16	20	
Molybdenum	500.0000	426.0000	ug/L	-15	20	
Nickel	1000.000	919.0000	ug/L	-8	20	
Selenium	500.0000	476.0000	ug/L	-5	20	
Silver	1000.000	1060.000	ug/L	6	20	
Thallium	500.0000	432.0000	ug/L	-14	20	
Titanium	20000.00	1790.000	ug/L	-91		
Vanadium	500.0000	438.0000	ug/L	-12	20	
Zinc	1000.000	925.0000	ug/L	-8	20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr212482	CS				05-AUG-2003	07:01	1.0				1		
002	tr212483	ICV				05-AUG-2003	07:05	1.0				2		
003	tr212484	ICB				05-AUG-2003	07:10	1.0						
004	tr212485	CRI				05-AUG-2003	07:14	1.0				3		
005	tr212486	ICSAB				05-AUG-2003	07:18	1.0				4		4:AL=474000
006	tr212487	BLANK	QC221068	83375	Soil	05-AUG-2003	07:27	1.0						
007	tr212488	BS	QC221069	83375	Soil	05-AUG-2003	07:32	1.0						
008	tr212489	BSD	QC221070	83375	Soil	05-AUG-2003	07:36	1.0						
009	tr212490	MSS	166624-027	83375	Soil	05-AUG-2003	07:41	1.0						3:FE=364800
010	tr212491	SER	QC221073	83375	Soil	05-AUG-2003	07:50	5.0						
011	tr212492	MS	QC221071	83375	Soil	05-AUG-2003	07:54	1.0						3:FE=380300
012	tr212493	MSD	QC221072	83375	Soil	05-AUG-2003	07:58	1.0						3:FE=344800
013	tr212494	PDS	QC221275	83375	Soil	05-AUG-2003	08:02	1.0				5		3:FE=372300
014	tr212495	CCV				05-AUG-2003	08:10	1.0				7		
015	tr212496	CCB				05-AUG-2003	08:15	1.0						
016	tr212497	SAMPLE	166624-002	83375	Soil	05-AUG-2003	08:19	1.0						1:FE=148800
017	tr212498	SAMPLE	166624-003	83375	Soil	05-AUG-2003	08:23	1.0						2:FE=257400
018	tr212499	SAMPLE	166624-004	83375	Soil	05-AUG-2003	08:27	1.0						3:FE=258600
019	tr212500	SAMPLE	166624-005	83375	Soil	05-AUG-2003	08:31	1.0						2:FE=225500
020	tr212501	SAMPLE	166624-006	83375	Soil	05-AUG-2003	08:35	1.0						4:FE=254100
021	tr212502	SAMPLE	166624-007	83375	Soil	05-AUG-2003	08:39	1.0						3:FE=253000
022	tr212503	SAMPLE	166624-006	83375	Soil	05-AUG-2003	08:43	10.0						
023	tr212504	SAMPLE	166624-001	83375	Soil	05-AUG-2003	08:47	1.0						1:FE=171200
024	tr212505	SAMPLE	166624-008	83375	Soil	05-AUG-2003	08:51	1.0						2:FE=241700
025	tr212506	SAMPLE	166624-009	83375	Soil	05-AUG-2003	08:55	1.0						2:FE=188600
026	tr212507	CCV				05-AUG-2003	09:02	1.0				8		
027	tr212508	CCB				05-AUG-2003	09:12	1.0						
028	tr212509	SAMPLE	166543-002	83173	Water	05-AUG-2003	09:19	1.0						
029	tr212510	SAMPLE	166543-004	83173	Water	05-AUG-2003	09:23	1.0						
030	tr212511	SAMPLE	166543-006	83173	Water	05-AUG-2003	09:26	1.0						
031	tr212512	SAMPLE	166543-008	83173	Water	05-AUG-2003	09:30	1.0						
032	tr212513	SAMPLE	166624-012	83375	Soil	05-AUG-2003	09:35	1.0						2:FE=175100
						05-AUG-2003	09:44	44.44444						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: W. J. W. Date: 8/13

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stdts Used	>LR
033	tr212514 SAMPLE	166646-027	83388 Soil	05-AUG-2003 09:40 10.0	43.10345			
034	tr212515 SAMPLE	166624-013	83375 Soil	05-AUG-2003 09:43 1.0	37.31343			2:FE=269100
035	tr212516 SAMPLE	166624-015	83375 Soil	05-AUG-2003 09:47 1.0	41.15226			3:FE=213500
036	tr212517 SAMPLE	166624-014	83375 Soil	05-AUG-2003 09:55 1.0	44.84305			2:FE=198000
037	tr212518 SAMPLE	166624-016	83375 Soil	05-AUG-2003 09:59 1.0	48.78049			2:FE=217600
038	tr212519 CCV			05-AUG-2003 10:06 1.0	1.0		7	
039	tr212520 CCB			05-AUG-2003 10:11 1.0	1.0			
040	tr212521 SAMPLE	166624-017	83375 Soil	05-AUG-2003 10:15 1.0	44.84305 1			3:FE=232200
041	tr212522 SAMPLE	166624-018	83375 Soil	05-AUG-2003 10:19 1.0	49.50495			2:FE=186900
042	tr212523 SAMPLE	166624-019	83375 Soil	05-AUG-2003 10:23 1.0	44.64286			2:FE=166700
043	tr212524 SAMPLE	166624-021	83375 Soil	05-AUG-2003 10:27 1.0	41.66667			2:FE=178000
044	tr212525 SAMPLE	166624-023	83375 Soil	05-AUG-2003 10:31 1.0	43.85965			3:FE=355800
045	tr212526 SAMPLE	166624-017	83375 Soil	05-AUG-2003 10:35 10.0	44.84305			
046	tr212527 BLANK	QC221217	83412 Water	05-AUG-2003 10:43 1.0	1.0			
047	tr212528 BS	QC221218	83412 Water	05-AUG-2003 10:47 1.0	1.0			
048	tr212529 BSD	QC221219	83412 Water	05-AUG-2003 10:50 1.0	1.0			
049	tr212530 MSS	166668-007	83412 Water	05-AUG-2003 10:56 1.0	1.0			
050	tr212531 CCV			05-AUG-2003 11:01 1.0	1.0		8	
051	tr212532 CCB			05-AUG-2003 11:10 1.0	1.0			
052	tr212533 SER	QC221222	83412 Water	05-AUG-2003 11:14 5.0	1.0			
053	tr212534 MS	QC221220	83412 Water	05-AUG-2003 11:18 1.0	1.0	2		
054	tr212535 MS	QC221220	83412 Water	05-AUG-2003 11:22 1.0	1.0			
055	tr212536 MSD	QC221221	83412 Water	05-AUG-2003 11:25 1.0	1.0			
056	tr212537 SAMPLE	166680-001	83412 Water	05-AUG-2003 11:30 1.0	1.0			
057	tr212538 SAMPLE	166680-002	83412 Water	05-AUG-2003 11:33 1.0	1.0			2:CA=154000
058	tr212539 SAMPLE	166681-001	83412 Water	05-AUG-2003 11:37 1.0	1.0			
059	tr212540 SAMPLE	166680-003	83412 Water	05-AUG-2003 11:40 1.0	1.0			2:CA=203100
060	tr212541 SAMPLE	166668-010	83412 Water	05-AUG-2003 11:43 1.0	1.0			
061	tr212542 CCV			05-AUG-2003 11:47 1.0	1.0		7	
062	tr212543 CCB			05-AUG-2003 11:53 1.0	1.0			
063	tr212544 SAMPLE	166673-001	83412 Water	05-AUG-2003 11:57 1.0	1.0			
064	tr212545 SAMPLE	166682-014	83412 Water	05-AUG-2003 12:01 1.0	1.0			

Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Merche Date: 8/8/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73312901

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
065	tr212546	BLANK	QC221240	83420	Water	05-AUG-2003	12:04	1.0					
066	tr212547	BS	QC221241	83420	Water	05-AUG-2003	12:08	1.0					
067	tr212548	BSD	QC221242	83420	Water	05-AUG-2003	12:11	1.0					
068	tr212549	MSS	166702-001	83420	Water	05-AUG-2003	12:16	1.0					
069	tr212550	MS	QC221243	83420	Water	05-AUG-2003	12:19	1.0					
070	tr212551	MSD	QC221244	83420	Water	05-AUG-2003	12:22	1.0					
071	tr212552	SAMPLE	166702-010	83420	Water	05-AUG-2003	12:26	1.0					
072	tr212553	CCV				05-AUG-2003	12:30	1.0				8	
073	tr212554	CCB				05-AUG-2003	12:37	1.0					
074	tr212555	BLANK	QC221255	83422	Soil	05-AUG-2003	12:41	1.0					
075	tr212556	BS	QC221256	83422	Soil	05-AUG-2003	12:44	1.0					
076	tr212557	BSD	QC221257	83422	Soil	05-AUG-2003	12:48	1.0					
077	tr212558	MSS	166645-031	83422	Soil	05-AUG-2003	12:51	1.0				1:FE=152400	
078	tr212559	SER	QC221260	83422	Soil	05-AUG-2003	12:55	5.0					
079	tr212560	MS	QC221258	83422	Soil	05-AUG-2003	12:59	1.0					
080	tr212561	MSD	QC221259	83422	Soil	05-AUG-2003	13:02	1.0					
081	tr212562	SAMPLE	166702-002	83422	Soil	05-AUG-2003	13:06	1.0				2:FE=177200	
082	tr212563	SAMPLE	166702-003	83422	Soil	05-AUG-2003	13:09	1.0				2:FE=167600	
083	tr212564	SAMPLE	166702-004	83422	Soil	05-AUG-2003	13:13	1.0				3:FE=294600	
084	tr212565	CCV				05-AUG-2003	13:20	1.0				2:FE=276700	
085	tr212566	CCB				05-AUG-2003	13:26	1.0				3:FE=420600	
086	tr212567	SAMPLE	166702-005	83422	Soil	05-AUG-2003	13:30	1.0					
087	tr212568	SAMPLE	166702-006	83422	Soil	05-AUG-2003	13:34	1.0				3:FE=621500	
088	tr212569	SAMPLE	166702-007	83422	Soil	05-AUG-2003	13:37	1.0				3:FE=296200	
089	tr212570	SAMPLE	166702-008	83422	Soil	05-AUG-2003	13:41	1.0				3:FE=321800	
090	tr212571	SAMPLE	166702-009	83422	Soil	05-AUG-2003	13:44	1.0				4:FE=371500	
091	tr212572	SAMPLE	166702-011	83422	Soil	05-AUG-2003	13:47	1.0				3:FE=375000	
092	tr212573	SAMPLE	166544-004	83173	Water	05-AUG-2003	13:51	1.0				4:FE=459700	
093	tr212574	SAMPLE	166544-008	83173	Water	05-AUG-2003	13:55	1.0				2:CA=499600	
094	tr212575	BLANK	QC221075	83377	Soil	05-AUG-2003	14:00	1.0					
095	tr212576	CCV				05-AUG-2003	14:19	1.0					
096	tr212577	CCB				05-AUG-2003	14:26	1.0				9	

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Mei Wu Date: 8/1/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2003

#	Filename Type	Sample Num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts Used	>LR
097	tr212578 BS	QC221076	83377	Soil	05-AUG-2003 14:33	1.0	50.0	1				
098	tr212579 BSD	QC221077	83377	Soil	05-AUG-2003 14:37	1.0	50.0	1				
099	tr212580 MSS	166624-032	83377	Soil	05-AUG-2003 14:40	1.0	48.07692	1				1:FE=180100
100	tr212581 SER	QC221080	83377	Soil	05-AUG-2003 14:44	5.0	48.07692					
101	tr212582 MS	QC221078	83377	Soil	05-AUG-2003 14:47	1.0	37.87879					3:FE=228500
102	tr212583 MSD	QC221079	83377	Soil	05-AUG-2003 14:51	1.0	42.19409					2:FE=211000
103	tr212584 MSS	166624-043	83377	Soil	05-AUG-2003 14:54	1.0	49.75124	3				2:FE=194900
104	tr212585 MS	QC221081	83377	Soil	05-AUG-2003 14:58	1.0	41.49378					3:FE=256800
105	tr212586 MSD	QC221082	83377	Soil	05-AUG-2003 15:01	1.0	43.29004					3:FE=229800
106	tr212587 SAMPLE	166624-024	83377	Soil	05-AUG-2003 15:05	1.0	38.46154					3:FE=490700
107	tr212588 CCV				05-AUG-2003 15:10	1.0	1.0	1			8	
108	tr212589 CCB				05-AUG-2003 15:14	1.0	1.0					
109	tr212590 SAMPLE	166624-025	83377	Soil	05-AUG-2003 15:18	1.0	48.78049					2:FE=189800
110	tr212591 SAMPLE	166624-026	83377	Soil	05-AUG-2003 15:22	1.0	46.51163					2:FE=299600
111	tr212592 SAMPLE	166624-028	83377	Soil	05-AUG-2003 15:25	1.0	43.29004					2:FE=209800
112	tr212593 SAMPLE	166624-029	83377	Soil	05-AUG-2003 15:29	1.0	46.72897					1:FE=236600
113	tr212594 SAMPLE	166624-033	83377	Soil	05-AUG-2003 15:32	1.0	39.06250					2:FE=255800
114	tr212595 SAMPLE	166624-034	83377	Soil	05-AUG-2003 15:36	1.0	47.84689					2:FE=246000
115	tr212596 SAMPLE	166624-035	83377	Soil	05-AUG-2003 15:39	1.0	40.81633					3:FE=336900
116	tr212597 SAMPLE	166624-036	83377	Soil	05-AUG-2003 15:43	1.0	42.91845					2:FE=200500
117	tr212598 SAMPLE	166624-039	83377	Soil	05-AUG-2003 15:46	1.0	47.39336					1:FE=178900
118	tr212599 SAMPLE	166624-040	83377	Soil	05-AUG-2003 15:50	1.0	38.16794					3:FE=251700
119	tr212600 CCV				05-AUG-2003 15:58	1.0	1.0				7	
120	tr212601 CCB				05-AUG-2003 16:02	1.0	1.0					
121	tr212602 BLANK	QC221303	83433	Soil	05-AUG-2003 16:05	1.0	50.0					
122	tr212603 BS	QC221304	83433	Soil	05-AUG-2003 16:09	1.0	50.0					
123	tr212604 BSD	QC221305	83433	Soil	05-AUG-2003 16:12	1.0	50.0					
124	tr212605 MSS	166624-030	83433	Soil	05-AUG-2003 16:16	1.0	43.47826	1				1:FE=208700
125	tr212606 SER	QC221308	83433	Soil	05-AUG-2003 16:21	5.0	43.47826	1				
126	tr212607 MS	QC221306	83433	Soil	05-AUG-2003 16:25	1.0	44.05286		1			1:FE=236300
127	tr212608 MSD	QC221307	83433	Soil	05-AUG-2003 16:28	1.0	42.37288		1			1:FE=239500
128	tr212609 SAMPLE	166624-031	83433	Soil	05-AUG-2003 16:32	1.0	45.24887					1:FE=148900

Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Mo. Webb Date: 8/10

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
129	tr212610	SAMPLE	166618-003	83433	Soil	05-AUG-2003	16:36	1.0	48.54369					2:FE=196000
130	tr212611	CCV				05-AUG-2003	16:44	1.0	1.0			8		
131	tr212612	CCB				05-AUG-2003	16:51	1.0	1.0					
132	tr212613	SAMPLE	166624-042	83377	Soil	05-AUG-2003	16:55	1.0	47.61905					2:FE=208900
133	tr212614	SAMPLE	166624-044	83377	Soil	05-AUG-2003	16:58	1.0	43.10345					2:FE=234700
134	tr212615	SAMPLE	166624-045	83377	Soil	05-AUG-2003	17:01	1.0	49.75124					1:FE=183000
135	tr212616	SAMPLE	166624-046	83377	Soil	05-AUG-2003	17:05	1.0	50.0					2:FE=214700
136	tr212617	ICSAB				05-AUG-2003	17:10	1.0	1.0			4		4:MG=463700
137	tr212618	CCV				05-AUG-2003	17:16	1.0	1.0			8		
138	tr212619	CCB				05-AUG-2003	17:21	1.0	1.0					

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Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Melanie Date: 8/14/03
Page 5 of 5

REPORTING SUMMARY FOR 166668 METALS Water

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166668-007	MET07	08/05/03 10:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166668-010	MET07	08/05/03 11:43	1.0		+		+					+		+								+
QC221217	MET07	08/05/03 10:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221218	MET07	08/05/03 10:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221219	MET07	08/05/03 10:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221220	MET07	08/05/03 11:18	1.0																			
QC221220	MET07	08/05/03 11:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221221	MET07	08/05/03 11:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221222	MET07	08/05/03 11:14	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories

Sample Preparation Summary

04-AUG-2003 15:10

Batch Number : 83412
Date Extracted: 04-AUG-2003
Extracted by : Patricia V. Vergara
Prep Method : 3010

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 03SS177
Spike #2 ID : 03SS178
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166668-007		Treadwell & Rollo	Water	50	ml	50	1	1					TAL/ICP	miss
166668-010		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166673-001		SOMA Environmental Engineering	Water	50	ml	50	1	1					PB	
166680-001		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
166680-002		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
166680-003		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
16681-001		Stellar Environmental Solution	Water	50	ml	50	1	1					T26/ICP	
166682-014		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
QC221217	BLANK		Water	50	ml	50	1	1		.5	.5		ICAP	
QC221218	BS		Water	50	ml	50	1	1		.5	.5		ICAP	
QC221219	BSD		Water	50	ml	50	1	1		.5	.5		ICAP	
QC221220	MS	of 166668-007	Water	50	ml	50	1	1		.5	.5		ICAP	
QC221221	MSD	of 166668-007	Water	50	ml	50	1	1		.5	.5		ICAP	
QC221222	SER	of 166668-007	Water	50	ml	50	1	1		.5	.5		ICAP	

Prep Chemist: Patricia Vergara Reviewed By: mm Date: 8/5/03

Relinquished By: Patricia Vergara Received By: mm Date: 8/6/03

09/04/03

Batch # 83412

ICAP/H 3010

SAMPLE ID	INITIAL (ML)	Final Vol (ML)	FILTERED YES/NO	COMMENTS
A 166668-007 (HSS)	50.0	50	NO	SPIKES
↓ 166668-010				✓ 03SS177 (0.5 ML)
B 166673-001				✓ 03SS178 ↓
G 166680-001				
↓ ↓ 002				Reagents
↓ ↓ 003				HNO3 OT BAKER # Y05050
C 166681-001				1:1 HCL JT BAKER # Y12028/Y072303
A 166682-014				
MBQC 221217				
✓ BS ↓ 221218				
✓ BSD ↓ 221219				
✓ MS-16668-007				
✓ MSD-16668-007				

Continued on Page

Read and Understood By

Patricia Vergara
Signed09/04/03
Date

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Signed

P. M.

S. M.

Date

Method Detection Limit Study for EPA 6010B/200.7
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B / 2a.7 ✓ 6/25/03
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB01[0.3]	Batch#:	83482
Lab ID:	166668-011	Sampled:	07/31/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry		

Moisture: 1%

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	3,300	4.6	1.000	08/06/03
Antimony	ND	2.7	1.000	08/06/03
Arsenic	1.7	0.23	1.000	08/06/03
Barium	16	0.46	1.000	08/06/03
Beryllium	0.16	0.091	1.000	08/06/03
Cadmium	0.66	0.23	1.000	08/06/03
Chromium	23	0.46	1.000	08/06/03
Cobalt	3.7	0.91	1.000	08/06/03
Copper	3.2	0.46	1.000	08/06/03
Iron	6,600	23	5.000	08/07/03
Lead	2.8	0.14	1.000	08/06/03
Magnesium	1,600	23	1.000	08/06/03
Manganese	97	0.46	1.000	08/06/03
Nickel	19	0.91	1.000	08/06/03
Selenium	ND	0.23	1.000	08/06/03
Silver	ND	0.23	1.000	08/06/03
Thallium	ND	0.23	1.000	08/06/03
Vanadium	16	0.46	1.000	08/06/03
Zinc	14	0.91	1.000	08/06/03

ND= Not Detected
 RL= Reporting Limit
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Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCBSB01[1]	Diln Fac:	1.000
Lab ID:	166668-012	Batch#:	83482
Matrix:	Soil	Sampled:	07/31/03
Units:	mg/Kg	Received:	08/01/03
Basis:	dry	Prepared:	08/06/03

Moisture: 1%

Analyte	Result	RL	Analyzed
Aluminum	3,600	4.7	08/06/03
Antimony	ND	2.8	08/06/03
Arsenic	1.4	0.23	08/06/03
Barium	25	0.47	08/06/03
Beryllium	0.17	0.094	08/06/03
Cadmium	0.95	0.23	08/06/03
Chromium	23	0.47	08/06/03
Cobalt	3.9	0.94	08/06/03
Copper	4.4	0.47	08/06/03
Iron	1,400	4.7	08/07/03
Lead	8.4	0.14	08/06/03
Magnesium	1,600	23	08/06/03
Manganese	120	0.47	08/06/03
Nickel	18	0.94	08/06/03
Selenium	ND	0.23	08/06/03
Silver	ND	0.23	08/06/03
Thallium	ND	0.23	08/06/03
Vanadium	18	0.47	08/06/03
Zinc	17	0.94	08/06/03

Barium

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB22 [1]	SAMPLE	166668-001	14	0.51	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB22 [2]	SAMPLE	166668-002	10	0.44	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [0.3]	SAMPLE	166668-003	40	0.50	dry	4%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [1]	SAMPLE	166668-004	20	0.45	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [1]	SAMPLE	166668-005	19	0.51	dry	15%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [0.3]	SAMPLE	166668-006	21	0.56	dry	12%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [1]	SAMPLE	166668-008	12	0.43	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [0.3]	SAMPLE	166668-009	14	0.45	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB23 [1]	SAMPLE	166668-014	16	0.51	dry	2%	83478	07/31/03	08/06/03	08/07/03
DUP073103D	SAMPLE	166668-015	12	0.43	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [1]	SAMPLE	166668-016	22	0.49	dry	5%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [0.3]	SAMPLE	166668-018	16	0.50	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [1]	SAMPLE	166668-019	14	0.45	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [1]	SAMPLE	166668-020	12	0.47	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [2]	SAMPLE	166668-021	10	0.49	dry	1%	83478	07/31/03	08/06/03	08/07/03
DUP073103E	SAMPLE	166668-022	12	0.42	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB14 [1]	SAMPLE	166668-023	12	0.45	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB14 [2]	SAMPLE	166668-024	11	0.50	dry	1%	83478	08/01/03	08/06/03	08/07/03

ND= Not Detected

RL= Reporting Limit

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63.0



Curtis & Tompkins, Ltd.

Barium

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
DUP080103A	SAMPLE	166668-025	12	0.47	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB09[1]	SAMPLE	166668-026	16	0.46	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB09[2]	SAMPLE	166668-027	12	0.39	dry	1%	83485	08/01/03	08/06/03	08/07/03
DUP080103B	SAMPLE	166668-028	11	0.51	dry	1%	83546	08/01/03	08/08/03	08/08/03
LCPSB08[1]	SAMPLE	166668-029	10	0.48	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB08[2]	SAMPLE	166668-030	8.8	0.43	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[1]	SAMPLE	166668-031	9.6	0.41	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[2] [MSD]	SAMPLE	166668-032	11	0.44	dry	1%	83478	08/01/03	08/06/03	08/07/03
	BLANK	QC221464	ND	0.50	as received		83478		08/06/03	08/07/03
	BLANK	QC221487	ND	0.50	as received		83482		08/06/03	08/06/03
	BLANK	QC221498	ND	0.50	as received		83485		08/06/03	08/07/03
	BLANK	QC221745	ND	0.50	as received		83546		08/08/03	08/08/03

ND= Not Detected
 RL= Reporting Limit
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63.0



Copper

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCPSB22 [1]	SAMPLE	166668-001	6.7	0.51	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [2]	SAMPLE	166668-002	3.8	0.44	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB09 [0.3]	SAMPLE	166668-003	11	0.50	dry	4%	83478	07/31/03	08/06/03	08/07/03
LCPSB09 [1]	SAMPLE	166668-004	4.3	0.45	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB04 [1]	SAMPLE	166668-005	5.3	0.51	dry	15%	83478	07/31/03	08/06/03	08/07/03
LCPSB04 [0.3]	SAMPLE	166668-006	7.6	0.56	dry	12%	83478	07/31/03	08/06/03	08/07/03
LCPSB12 [1]	SAMPLE	166668-008	2.8	0.43	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB12 [0.3]	SAMPLE	166668-009	3.3	0.45	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB23 [1]	SAMPLE	166668-014	6.9	0.51	dry	2%	83478	07/31/03	08/06/03	08/07/03
DUP073103D	SAMPLE	166668-015	3.5	0.43	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [1]	SAMPLE	166668-016	6.9	0.49	dry	5%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [0.3]	SAMPLE	166668-018	4.4	0.50	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [1]	SAMPLE	166668-019	3.9	0.45	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [1]	SAMPLE	166668-020	3.4	0.47	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [2]	SAMPLE	166668-021	2.8	0.49	dry	1%	83478	07/31/03	08/06/03	08/07/03
DUP073103E	SAMPLE	166668-022	3.6	0.42	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB14 [1]	SAMPLE	166668-023	3.3	0.45	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB14 [2]	SAMPLE	166668-024	3.0	0.50	dry	1%	83478	08/01/03	08/06/03	08/07/03

ND= Not Detected
 RL= Reporting Limit
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66.0



Curtis & Tompkins, Ltd.

Copper

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
DUP080103A	SAMPLE	166668-025	3.4	0.47	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB09[1]	SAMPLE	166668-026	3.3	0.46	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB09[2]	SAMPLE	166668-027	2.5	0.39	dry	1%	83485	08/01/03	08/06/03	08/07/03
DUP080103B	SAMPLE	166668-028	3.3	0.51	dry	1%	83546	08/01/03	08/08/03	08/08/03
LCPSB08[1]	SAMPLE	166668-029	2.7	0.48	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB08[2]	SAMPLE	166668-030	2.2	0.43	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[1]	SAMPLE	166668-031	2.3	0.41	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[2] [MSD]	SAMPLE	166668-032	2.1	0.44	dry	1%	83478	08/01/03	08/06/03	08/07/03
	BLANK	QC221464	ND	0.50	as received		83478		08/06/03	08/07/03
	BLANK	QC221487	ND	0.50	as received		83482		08/06/03	08/06/03
	BLANK	QC221498	ND	0.50	as received		83485		08/06/03	08/07/03
	BLANK	QC221745	ND	0.50	as received		83546		08/08/03	08/08/03

ND= Not Detected
 RL= Reporting Limit
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66.0



Curtis & Tompkins, Ltd.

Lead

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCPSB22 [1]	SAMPLE	166668-001	28	0.15	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [2]	SAMPLE	166668-002	17	0.13	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB09 [0.3]	SAMPLE	166668-003	23	0.15	dry	4%	83478	07/31/03	08/06/03	08/07/03
LCPSB09 [1]	SAMPLE	166668-004	5.6	0.14	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB04 [1]	SAMPLE	166668-005	64	0.15	dry	15%	83478	07/31/03	08/06/03	08/07/03
LCPSB04 [0.3]	SAMPLE	166668-006	29	0.17	dry	12%	83478	07/31/03	08/06/03	08/07/03
LCPSB12 [1]	SAMPLE	166668-008	5.4	0.13	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB12 [0.3]	SAMPLE	166668-009	6.2	0.13	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB23 [1]	SAMPLE	166668-014	14	0.15	dry	2%	83478	07/31/03	08/06/03	08/07/03
DUP073103D	SAMPLE	166668-015	5.4	0.13	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [1]	SAMPLE	166668-016	31	0.15	dry	5%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [0.3]	SAMPLE	166668-018	6.7	0.15	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [1]	SAMPLE	166668-019	5.5	0.14	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [1]	SAMPLE	166668-020	8.5	0.14	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [2]	SAMPLE	166668-021	6.3	0.15	dry	1%	83478	07/31/03	08/06/03	08/07/03
DUP073103E	SAMPLE	166668-022	11	0.13	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB14 [1]	SAMPLE	166668-023	13	0.13	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB14 [2]	SAMPLE	166668-024	9.3	0.15	dry	1%	83478	08/01/03	08/06/03	08/07/03

ND= Not Detected

RL= Reporting Limit

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69.0



Curtis & Tompkins, Ltd.

Lead

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
DUP080103A	SAMPLE	166668-025	12	0.14	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB09[1]	SAMPLE	166668-026	9.2	0.14	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB09[2]	SAMPLE	166668-027	4.5	0.12	dry	1%	83485	08/01/03	08/06/03	08/07/03
DUP080103B	SAMPLE	166668-028	3.6	0.15	dry	1%	83546	08/01/03	08/08/03	08/08/03
LCPSB08[1]	SAMPLE	166668-029	3.1	0.14	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB08[2]	SAMPLE	166668-030	2.5	0.13	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[1]	SAMPLE	166668-031	1.9	0.12	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10[2] [MSD]	SAMPLE	166668-032	1.6	0.13	dry	1%	83478	08/01/03	08/06/03	08/07/03
	BLANK	QC221464	ND	0.15	as received		83478		08/06/03	08/07/03
	BLANK	QC221487	ND	0.15	as received		83482		08/06/03	08/06/03
	BLANK	QC221498	ND	0.15	as received		83485		08/06/03	08/07/03
Σ	BLANK	QC221745	ND	0.15	as received		83546		08/08/03	08/08/03

ND= Not Detected
 RL= Reporting Limit
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69.0



Curtis & Tompkins, Ltd.

Antimony

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB22 [1]	SAMPLE	166668-001	ND	3.1	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB22 [2]	SAMPLE	166668-002	ND	2.6	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [0.3]	SAMPLE	166668-003	ND	3.0	dry	4%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [1]	SAMPLE	166668-004	ND	2.7	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [1]	SAMPLE	166668-005	ND	3.1	dry	15%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [0.3]	SAMPLE	166668-006	ND	3.4	dry	12%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [1]	SAMPLE	166668-008	ND	2.6	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [0.3]	SAMPLE	166668-009	ND	2.7	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB23 [1]	SAMPLE	166668-014	ND	3.1	dry	2%	83478	07/31/03	08/06/03	08/07/03
DUP073103D	SAMPLE	166668-015	ND	2.6	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [1]	SAMPLE	166668-016	ND	3.0	dry	5%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [0.3]	SAMPLE	166668-018	ND	3.0	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [1]	SAMPLE	166668-019	ND	2.7	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [1]	SAMPLE	166668-020	ND	2.8	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [2]	SAMPLE	166668-021	ND	2.9	dry	1%	83478	07/31/03	08/06/03	08/07/03
DUP073103E	SAMPLE	166668-022	ND	2.5	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB14 [1]	SAMPLE	166668-023	ND	2.7	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB14 [2]	SAMPLE	166668-024	ND	3.0	dry	1%	83478	08/01/03	08/06/03	08/07/03

ND= Not Detected

RL= Reporting Limit

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72.0



Curtis & Tompkins, Ltd.

Antimony

Lab #: 166668 Location: Presidio Firing Ranges
 Client: Treadwell & Rollo Prep: EPA 3050
 Project#: 2893.07 Analysis: EPA 6010B
 Analyte: Antimony Diln Fac: 1.000
 Matrix: Soil Received: 08/01/03
 Units: mg/Kg

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
DUP080103A	SAMPLE	166668-025	ND	2.8	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB09 [1]	SAMPLE	166668-026	ND	2.7	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB09 [2]	SAMPLE	166668-027	ND	2.4	dry	1%	83485	08/01/03	08/06/03	08/07/03
DUP080103B	SAMPLE	166668-028	ND	3.0	dry	1%	83546	08/01/03	08/08/03	08/08/03
LCPSB08 [1]	SAMPLE	166668-029	ND	2.9	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB08 [2]	SAMPLE	166668-030	ND	2.6	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10 [1]	SAMPLE	166668-031	ND	2.4	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10 [2] [MSD]	SAMPLE	166668-032	ND	2.7	dry	1%	83478	08/01/03	08/06/03	08/07/03
	BLANK	QC221464	ND	3.0	as received		83478		08/06/03	08/07/03
	BLANK	QC221487	ND	3.0	as received		83482		08/06/03	08/06/03
	BLANK	QC221498	ND	3.0	as received		83485		08/06/03	08/07/03
	BLANK	QC221745	ND	3.0	as received		83546		08/08/03	08/08/03

ND= Not Detected
 RL= Reporting Limit
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72.0



Curtis & Tompkins, Ltd.

Zinc

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
LCBSB22 [1]	SAMPLE	166668-001	17	1.0	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB22 [2]	SAMPLE	166668-002	13	0.87	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [0.3]	SAMPLE	166668-003	28	1.0	dry	4%	83478	07/31/03	08/06/03	08/07/03
LCBSB09 [1]	SAMPLE	166668-004	17	0.90	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [1]	SAMPLE	166668-005	24	1.0	dry	15%	83478	07/31/03	08/06/03	08/07/03
LCBSB04 [0.3]	SAMPLE	166668-006	37	1.1	dry	12%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [1]	SAMPLE	166668-008	14	0.87	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCBSB12 [0.3]	SAMPLE	166668-009	16	0.90	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB23 [1]	SAMPLE	166668-014	32	1.0	dry	2%	83478	07/31/03	08/06/03	08/07/03
DUP073103D	SAMPLE	166668-015	16	0.87	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB22 [1]	SAMPLE	166668-016	56	0.99	dry	5%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [0.3]	SAMPLE	166668-018	17	1.0	dry	2%	83478	07/31/03	08/06/03	08/07/03
LCPSB26 [1]	SAMPLE	166668-019	17	0.90	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [1]	SAMPLE	166668-020	17	0.94	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB15 [2]	SAMPLE	166668-021	14	0.98	dry	1%	83478	07/31/03	08/06/03	08/07/03
DUP073103E	SAMPLE	166668-022	17	0.85	dry	1%	83478	07/31/03	08/06/03	08/07/03
LCPSB14 [1]	SAMPLE	166668-023	17	0.89	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB14 [2]	SAMPLE	166668-024	17	1.0	dry	1%	83478	08/01/03	08/06/03	08/07/03

ND= Not Detected
 RL= Reporting Limit
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75.0



Curtis & Tompkins, Ltd.

Zinc

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Sampled	Prepared	Analyzed
DUP080103A	SAMPLE	166668-025	19	0.95	dry	2%	83478	08/01/03	08/06/03	08/07/03
LCPSB09 [1]	SAMPLE	166668-026	20	0.91	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB09 [2]	SAMPLE	166668-027	17	0.79	dry	1%	83485	08/01/03	08/06/03	08/07/03
DUP080103B	SAMPLE	166668-028	15	1.0	dry	1%	83546	08/01/03	08/08/03	08/08/03
LCPSB08 [1]	SAMPLE	166668-029	17	0.97	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB08 [2]	SAMPLE	166668-030	14	0.87	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10 [1]	SAMPLE	166668-031	15	0.81	dry	1%	83485	08/01/03	08/06/03	08/07/03
LCPSB10 [2] [MSD]	SAMPLE	166668-032	12	0.89	dry	1%	83478	08/01/03	08/06/03	08/07/03
	BLANK	QC221464	ND	1.0	as received		83478		08/06/03	08/07/03
	BLANK	QC221487	ND	1.0	as received		83482		08/06/03	08/06/03
	BLANK	QC221498	ND	1.0	as received		83485		08/06/03	08/07/03
	BLANK	QC221745	ND	1.0	as received		83546		08/08/03	08/08/03

ND= Not Detected
 RL= Reporting Limit
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Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221487	Batch#:	83482
Matrix:	Soil	Prepared:	08/06/03
Units:	mg/Kg	Analyzed:	08/06/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

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Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221464	Batch#:	83478
Matrix:	Soil	Prepared:	08/06/03
Units:	mg/Kg	Analyzed:	08/07/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221498	Batch#:	83485
Matrix:	Soil	Prepared:	08/06/03
Units:	mg/Kg	Analyzed:	08/07/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221745	Batch#:	83546
Matrix:	Soil	Prepared:	08/08/03
Units:	mg/Kg	Analyzed:	08/08/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0



Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	83482
Basis:	as received	Prepared:	08/06/03

Type: BS
Lab ID: QC221488

Analyzed: 08/06/03

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	903.0	90	75-125
Antimony	100.0	96.50	97	75-125
Arsenic	50.00	44.45	89	75-125
Barium	100.0	91.50	92	75-125
Beryllium	2.500	2.460	98	75-125
Cadmium	10.00	8.950	90	75-125
Chromium	100.0	93.00	93	75-125
Cobalt	25.00	22.45	90	75-125
Copper	12.50	11.90	95	75-125
Iron	1,000	914.5	91	75-125
Lead	100.0	89.00	89	75-125
Magnesium	1,000	898.5	90	75-125
Manganese	25.00	22.75	91	75-125
Nickel	25.00	22.85	91	75-125
Selenium	50.00	38.80	78	75-125
Silver	10.00	9.000	90	75-125
Thallium	50.00	44.55	89	75-125
Vanadium	25.00	23.45	94	75-125
Zinc	25.00	21.85	87	75-125

Type: BSD

Lab ID: QC221489

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	1,000	859.5	86	75-125	5	30	08/06/03
Antimony	100.0	91.50	92	75-125	5	30	08/06/03
Arsenic	50.00	41.45	83	75-125	7	30	08/06/03
Barium	100.0	88.00	88	75-125	4	30	08/06/03
Beryllium	2.500	2.275	91	75-125	8	30	08/06/03
Cadmium	10.00	8.150	82	75-125	9	30	08/06/03
Chromium	100.0	86.00	86	75-125	8	30	08/06/03
Cobalt	25.00	20.70	83	75-125	8	30	08/06/03
Copper	12.50	11.35	91	75-125	5	30	08/06/03
Iron	1,000	846.0	85	75-125	8	30	08/06/03
Lead	100.0	83.00	83	75-125	7	30	08/06/03
Magnesium	1,000	832.0	83	75-125	8	30	08/06/03
Manganese	25.00	21.15	85	75-125	7	30	08/06/03
Nickel	25.00	21.05	84	75-125	8	30	08/06/03
Selenium	50.00	38.05	76	75-125	2	30	08/07/03
Silver	10.00	8.400	84	75-125	7	30	08/06/03
Thallium	50.00	41.35	83	75-125	7	30	08/06/03
Vanadium	25.00	21.90	88	75-125	7	30	08/06/03
Zinc	25.00	20.30	81	75-125	7	30	08/06/03

Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221465

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	99.50	100	75-125
Barium	100.0	95.00	95	75-125
Copper	12.50	12.30	98	75-125
Lead	100.0	86.00	86	75-125
Zinc	25.00	20.75	83	75-125

Type: BSD Lab ID: QC221466

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.0	100	75-125	1	30
Barium	100.0	95.50	96	75-125	1	30
Copper	12.50	12.35	99	75-125	0	30
Lead	100.0	87.00	87	75-125	1	30
Zinc	25.00	21.05	84	75-125	1	30

**Target Analyte List Metals**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221499

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	103.5	104	75-125
Barium	100.0	95.50	96	75-125
Copper	12.50	12.20	98	75-125
Lead	100.0	88.50	89	75-125
Zinc	25.00	21.45	86	75-125

Type: BSD Lab ID: QC221500

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.0	100	75-125	3	30
Barium	100.0	95.00	95	75-125	1	30
Copper	12.50	12.10	97	75-125	1	30
Lead	100.0	86.00	86	75-125	3	30
Zinc	25.00	20.95	84	75-125	2	30

**Target Analyte List Metals**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221746

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	88.50	89	75-125
Barium	100.0	88.00	88	75-125
Copper	12.50	11.35	91	75-125
Lead	100.0	82.50	83	75-125
Zinc	25.00	20.25	81	75-125

Type: BSD Lab ID: QC221747

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	89.50	90	75-125	1	30
Barium	100.0	89.00	89	75-125	1	30
Copper	12.50	11.45	92	75-125	1	30
Lead	100.0	83.50	84	75-125	1	30
Zinc	25.00	20.40	82	75-125	1	30



Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221465	100.0	95.00	95	75-125		
BSD	QC221466	100.0	95.50	96	75-125	1	30

Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	91.50	92	75-125		
BSD	QC221489	100.0	88.00	88	75-125	4	30

Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	95.50	96	75-125		
BSD	QC221500	100.0	95.00	95	75-125	1	30

Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221746	100.0	88.00	88	75-125		
BSD	QC221747	100.0	89.00	89	75-125	1	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221465	12.50	12.30	98	75-125		
BSD	QC221466	12.50	12.35	99	75-125	0	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	12.50	11.90	95	75-125		
BSD	QC221489	12.50	11.35	91	75-125	5	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	12.50	12.20	98	75-125		
BSD	QC221500	12.50	12.10	97	75-125	1	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221746	12.50	11.35	91	75-125		
BSD	QC221747	12.50	11.45	92	75-125	1	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221465	100.0	86.00	86	75-125		
BSD	QC221466	100.0	87.00	87	75-125	1	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	89.00	89	75-125		
BSD	QC221489	100.0	83.00	83	75-125	7	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	88.50	89	75-125		
BSD	QC221500	100.0	86.00	86	75-125	3	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221746	100.0	82.50	83	75-125		
BSD	QC221747	100.0	83.50	84	75-125	1	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221465	100.0	99.50	100	75-125		
BSD	QC221466	100.0	100.0	100	75-125	1	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	96.50	97	75-125		
BSD	QC221489	100.0	91.50	92	75-125	5	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	103.5	104	75-125		
BSD	QC221500	100.0	100.0	100	75-125	3	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221746	100.0	88.50	89	75-125		
BSD	QC221747	100.0	89.50	90	75-125	1	30

Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83478
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221465	25.00	20.75	83	75-125		
BSD	QC221466	25.00	21.05	84	75-125	1	30

Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	25.00	21.85	87	75-125		
BSD	QC221489	25.00	20.30	81	75-125	7	30

Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	25.00	21.45	86	75-125		
BSD	QC221500	25.00	20.95	84	75-125	2	30

Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83546
Units:	mg/Kg	Prepared:	08/08/03
Basis:	as received	Analyzed:	08/08/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221746	25.00	20.25	81	75-125		
BSD	QC221747	25.00	20.40	82	75-125	1	30



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Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB04[1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry		

Type: MS
Lab ID: QC221490

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln	Fac	Analyzed
Aluminum	8,215	1,032	8,653	42 NM	75-125	5.000		08/07/03
Antimony	0.6316	103.2	36.79	35 *	75-125	1.000		08/06/03
Arsenic	2.659	51.60	42.47	77	75-125	1.000		08/06/03
Barium	140.5	103.2	180.1	38 *	75-125	1.000		08/06/03
Beryllium	0.3031	2.580	2.570	88	75-125	1.000		08/06/03
Cadmium	1.694	10.32	9.546	76	75-125	1.000		08/06/03
Chromium	66.10	103.2	148.6	80	75-125	1.000		08/06/03
Cobalt	11.36	25.80	31.17	77	75-125	1.000		08/06/03
Copper	13.95	12.90	23.89	77	75-125	1.000		08/06/03
Iron	15,060	1,032	14,820	-23 NM	75-125	5.000		08/07/03
Lead	67.07	103.2	148.1	79	75-125	1.000		08/06/03
Magnesium	3,846	1,032	6,130	221 *	75-125	5.000		08/07/03
Manganese	340.8	25.80	326.1	-57 NM	75-125	1.000		08/06/03
Nickel	61.20	25.80	89.78	111	75-125	1.000		08/06/03
Selenium	<0.1684	51.60	33.69	65 *	75-125	1.000		08/06/03
Silver	<0.02632	10.32	8.669	84	75-125	1.000		08/06/03
Thallium	<35.79	51.60	38.85	75	75-125	5.000		08/07/03
Vanadium	35.35	25.80	52.12	65 *	75-125	1.000		08/06/03
Zinc	100.4	25.80	119.7	75	75-125	1.000		08/06/03

Type: MSD
Lab ID: QC221491

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac	Analyzed
Aluminum	983.8	8,856	65 NM	75-125	3	30	5.000		08/07/03
Antimony	98.38	40.38	40 *	75-125	14	30	1.000		08/06/03
Arsenic	49.19	42.45	81	75-125	5	30	1.000		08/06/03
Barium	98.38	160.8	21 *	75-125	9	30	1.000		08/06/03
Beryllium	2.459	2.592	93	75-125	5	30	1.000		08/06/03
Cadmium	9.838	9.641	81	75-125	5	30	1.000		08/06/03
Chromium	98.38	146.6	82	75-125	2	30	1.000		08/06/03
Cobalt	24.59	31.58	82	75-125	5	30	1.000		08/06/03
Copper	12.30	22.58	70 *	75-125	3	30	1.000		08/06/03
Iron	983.8	14,860	-20 NM	75-125	1	30	5.000		08/07/03
Lead	98.38	129.4	63 *	75-125	11	30	1.000		08/06/03
Magnesium	983.8	4,411	79	75-125	NC	30	1.000		08/06/03
Manganese	24.59	340.9	0 NM	75-125	5	30	1.000		08/06/03
Nickel	24.59	80.67	79	75-125	9	30	1.000		08/06/03
Selenium	49.19	33.50	68 *	75-125	4	30	1.000		08/06/03
Silver	9.838	8.559	87	75-125	4	30	1.000		08/06/03
Thallium	49.19	33.64	68 *	75-125	10	30	5.000		08/07/03
Vanadium	24.59	54.60	78	75-125	7	30	1.000		08/06/03
Zinc	24.59	96.41	-16 NM	75-125	21	30	1.000		08/06/03

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

RPD= Relative Percent Difference

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Target Analyte List Metals

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB16[0.3][MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry		

Type: MS
Lab ID: QC221493

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln	Fac	Analyzed
Aluminum	8,688	979.2	10,910	227 NM	75-125	5.000		08/07/03
Antimony	0.4608	97.92	28.84	29 *	75-125	1.000		08/06/03
Arsenic	2.211	48.96	40.54	78	75-125	1.000		08/06/03
Barium	41.30	97.92	126.8	87	75-125	1.000		08/06/03
Beryllium	0.3183	2.448	2.477	88	75-125	1.000		08/06/03
Cadmium	1.551	9.792	9.204	78	75-125	1.000		08/06/03
Chromium	66.99	97.92	138.1	73 *	75-125	1.000		08/06/03
Cobalt	11.13	24.48	29.23	74 *	75-125	1.000		08/06/03
Copper	5.742	12.24	16.89	91	75-125	1.000		08/06/03
Iron	15,870	979.2	17,250	141 NM	75-125	5.000		08/07/03
Lead	5.339	97.92	82.74	79	75-125	1.000		08/06/03
Magnesium	2,862	979.2	3,571	72 *	75-125	1.000		08/06/03
Manganese	266.9	24.48	261.0	-24 NM	75-125	1.000		08/06/03
Nickel	75.04	24.48	84.21	37 *	75-125	1.000		08/06/03
Selenium	<0.1684	48.96	32.71	67 *	75-125	1.000		08/06/03
Silver	<0.02737	9.792	8.127	83	75-125	1.000		08/06/03
Thallium	<0.1474	48.96	39.46	81	75-125	1.000		08/06/03
Vanadium	34.60	24.48	54.83	83	75-125	1.000		08/06/03
Zinc	24.68	24.48	42.55	73 *	75-125	1.000		08/06/03

Type: MSD
Lab ID: QC221494

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac	Analyzed
Aluminum	952.6	10,420	182 NM	75-125	4	30	5.000		08/07/03
Antimony	95.26	32.39	34 *	75-125	14	30	1.000		08/06/03
Arsenic	47.63	39.58	78	75-125	0	30	1.000		08/06/03
Barium	95.26	126.7	90	75-125	2	30	1.000		08/06/03
Beryllium	2.382	2.458	90	75-125	2	30	1.000		08/06/03
Cadmium	9.526	9.145	80	75-125	2	30	1.000		08/06/03
Chromium	95.26	137.2	74 *	75-125	1	30	1.000		08/06/03
Cobalt	23.82	29.34	76	75-125	2	30	1.000		08/06/03
Copper	11.91	16.91	94	75-125	2	30	1.000		08/06/03
Iron	952.6	16,710	89 NM	75-125	3	30	5.000		08/07/03
Lead	95.26	82.40	81	75-125	2	30	1.000		08/06/03
Magnesium	952.6	3,574	75	75-125	1	30	1.000		08/06/03
Manganese	23.82	272.4	23 NM	75-125	5	30	1.000		08/06/03
Nickel	23.82	84.31	39 *	75-125	1	30	1.000		08/06/03
Selenium	47.63	31.48	66 *	75-125	1	30	1.000		08/06/03
Silver	9.526	8.050	85	75-125	2	30	1.000		08/06/03
Thallium	47.63	39.06	82	75-125	2	30	1.000		08/06/03
Vanadium	23.82	54.77	85	75-125	1	30	1.000		08/06/03
Zinc	23.82	42.68	76	75-125	2	30	1.000		08/06/03

*= Value outside of QC limits; see narrative

NM= Not Meaningful

RPD= Relative Percent Difference

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17.1



Target Analyte List Metals			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03
Diln Fac:	1.000		

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5340	78.61	44.02	55 *	75-125
Barium	11.12	78.61	79.39	87	75-125
Copper	2.149	9.826	11.44	95	75-125
Lead	1.584	78.61	64.85	80	75-125
Zinc	11.70	19.65	27.00	78	75-125

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	87.08	50.51	57 *	75-125	4	30
Barium	87.08	87.95	88	75-125	1	30
Copper	10.88	12.58	96	75-125	1	30
Lead	87.08	72.71	82	75-125	1	30
Zinc	21.77	29.13	80	75-125	1	30

14.0

**Target Analyte List Metals**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB10[1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221501

Moisture: 4%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6897	95.57	29.48	30 *	75-125
Barium	33.44	95.57	109.9	80	75-125
Copper	5.613	11.95	15.43	82	75-125
Lead	11.80	95.57	79.32	71 *	75-125
Zinc	30.35	23.89	42.96	53 *	75-125

Type: MSD
Lab ID: QC221502

Moisture: 4%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	83.33	23.04	27 *	75-125	11	30
Barium	83.33	105.4	86	75-125	6	30
Copper	10.42	14.92	89	75-125	6	30
Lead	83.33	74.17	75	75-125	5	30
Zinc	20.83	42.08	56 *	75-125	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Target Analyte List Metals**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221748

Moisture: 1%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.8737	99.03	51.99	52 *	75-125
Barium	11.41	99.03	108.9	98	75-125
Copper	3.298	12.38	15.84	101	75-125
Lead	3.616	99.03	92.59	90	75-125
Zinc	15.20	24.76	37.58	90	75-125

Type: MSD
Lab ID: QC221749

Moisture: 1%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	97.59	49.29	50 *	75-125	4	30
Barium	97.59	100.0	91	75-125	7	30
Copper	12.20	14.59	93	75-125	7	30
Lead	97.59	83.93	82	75-125	8	30
Zinc	24.40	34.45	79	75-125	8	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221467	11.12	78.61	79.39	87	75-125	1%		
MSD	QC221468		87.08	87.95	88	75-125	1%	1	30

**Barium**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	140.5	103.2	180.1	38 *	75-125	5%		
MSD	QC221491		98.38	160.8	21 *	75-125	5%	9	30

* = Value outside of QC limits; see narrative

RPD = Relative Percent Difference

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**Barium**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	41.30	97.92	126.8	87	75-125	5%		
MSD	QC221494		95.26	126.7	90	75-125	5%	2	30

Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	33.44	95.57	109.9	80	75-125	4%		
MSD	QC221502		83.33	105.4	86	75-125	4%	6	30

Barium			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221748	11.41	99.03	108.9	98	75-125	1%		
MSD	QC221749		97.59	100.0	91	75-125	1%	7	30

Copper

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221467	2.149	9.826	11.44	95	75-125	1%		
MSD	QC221468		10.88	12.58	96	75-125	1%	1	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	13.95	12.90	23.89	77	75-125	5%		
MSD	QC221491		12.30	22.58	70 *	75-125	5%	3	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	5.742	12.24	16.89	91	75-125	5%		
MSD	QC221494		11.91	16.91	94	75-125	5%	2	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	5.613	11.95	15.43	82	75-125	4%		
MSD	QC221502		10.42	14.92	89	75-125	4%	6	30

Copper			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221748	3.298	12.38	15.84	101	75-125	1%		
MSD	QC221749		12.20	14.59	93	75-125	1%	7	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221467	1.584	78.61	64.85	80	75-125	1%		
MSD	QC221468		87.08	72.71	82	75-125	1%	1	30

Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	67.07	103.2	148.1	79	75-125	5%		
MSD	QC221491		98.38	129.4	63 *	75-125	5%	11	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Lead**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	5.339	97.92	82.74	79	75-125	5%		
MSD	QC221494		95.26	82.40	81	75-125	5%	2	30



Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	11.80	95.57	79.32	71 *	75-125	4%		
MSD	QC221502		83.33	74.17	75	75-125	4%	5	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Lead			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221748	3.616	99.03	92.59	90	75-125	1%		
MSD	QC221749		97.59	83.93	82	75-125	1%	8	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221467	0.5340	78.61	44.02	55 *	75-125	1%		
MSD	QC221468		87.08	50.51	57 *	75-125	1%	4	30

Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	0.6316	103.2	36.79	35 *	75-125	5%		
MSD	QC221491		98.38	40.38	40 *	75-125	5%	14	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	0.4608	97.92	28.84	29 *	75-125	5%		
MSD	QC221494		95.26	32.39	34 *	75-125	5%	14	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	0.6897	95.57	29.48	30 *	75-125	4%		
MSD	QC221502		83.33	23.04	27 *	75-125	4%	11	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Antimony			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221748	0.8737	99.03	51.99	52 *	75-125	1%		
MSD	QC221749		97.59	49.29	50 *	75-125	1%	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	LCPSB10 [2] [MSD]	Batch#:	83478
MSS Lab ID:	166668-032	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221467	11.70	19.65	27.00	78	75-125	1%		
MSD	QC221468		21.77	29.13	80	75-125	1%	1	30

**Zinc**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	100.4	25.80	119.7	75	75-125	5%		
MSD	QC221491		24.59	96.41	-16 NM	75-125	5%	21	30

NM= Not Meaningful

RPD= Relative Percent Difference

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**Zinc**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	24.68	24.48	42.55	73 *	75-125	5%		
MSD	QC221494		23.82	42.68	76	75-125	5%	2	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Zinc**

Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	30.35	23.89	42.96	53 *	75-125	4%		
MSD	QC221502		20.83	42.08	56 *	75-125	4%	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166668	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	DUP080103B	Batch#:	83546
MSS Lab ID:	166668-028	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/08/03
Basis:	dry	Analyzed:	08/08/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221748	15.20	24.76	37.58	90	75-125	1%		
MSD	QC221749		24.40	34.45	79	75-125	1%	8	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73314350123	Seqnum : 73314350124
Filename : tr212827	Filename : tr212828
IDF : 1.0	IDF : 5.0
PDF : 46.51163	PDF : 46.51163
Run type : MSS	Run type : SER
Samplenum: 166682-007	Samplenum: QC221492
Matrix : Soil	Matrix : Soil
Batchnum : 83482	Batchnum : 83482
Inj : 06-AUG-2003 17:47	Inj : 06-AUG-2003 17:53
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.79	ND	14.0	--	10		u
Arsenic	2.53	0.233	2.51	1.16	1	10		u
Barium	133	0.465	134	2.33	0	10		u
Beryllium	0.288	0.0930	ND	0.465	--	10		u
Cadmium	1.61	0.233	1.64	1.16	--	10		u
Calcium	2480	23.3	2740	116	11	10		fu
Chromium	62.8	0.465	67.7	2.33	8	10		u
Cobalt	10.8	0.930	11.9	4.65	11	10		fu
Copper	13.3	0.465	13.1	2.33	1	10		u
Iron	*** usable MSS data not found ***							
Lead	63.7	0.140	71.6	0.698	12	10		fu
Magnesium	3450	23.3	3790	116	10	10		u
Manganese	324	0.465	351	2.33	8	10		u
Molybdenum	ND	0.930	ND	4.65	--	10		u
Nickel	58.1	0.930	64.9	4.65	12	10		fu
Selenium	ND	0.233	ND	1.16	--	10		u
Silver	ND	0.233	ND	1.16	--	10		u
Thallium	*** usable MSS data not found ***							
Vanadium	33.6	0.465	35.6	2.33	6	10		u
Zinc	95.3	0.930	108	4.65	13	10		fu
Titanium	406	0.465	416	2.33	3	10		u

f=recovery failure u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73315766036	Seqnum : 73315766037
Filename : tr212910	Filename : tr212911
IDF : 1.0	IDF : 5.0
PDF : 45.66210	PDF : 45.66210
Run type : MSS	Run type : SER
Samplenum: 166682-013	Samplenum: QC221503
Matrix : Soil	Matrix : Soil
Batchnum : 83485	Batchnum : 83485
Inj : 07-AUG-2003 10:12	Inj : 07-AUG-2003 10:15
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.74	ND	13.7	--	10	u
Arsenic	1.75	0.228	2.11	1.14	--	10	u
Barium	32.1	0.457	33.8	2.28	5	10	u
Beryllium	0.224	0.0913	ND	0.457	--	10	u
Cadmium	1.11	0.228	1.14	1.14	--	10	u
Calcium	2510	22.8	2730	114	9	10	u
Chromium	48.4	0.457	51.8	2.28	7	10	u
Cobalt	8.40	0.913	9.13	4.57	--	10	u
Copper	5.39	0.457	5.43	2.28	1	10	u
Iron	*** usable MSS data not found ***						
Lead	11.3	0.137	12.2	0.685	8	10	u
Magnesium	2000	22.8	2190	114	10	10	u
Manganese	238	0.457	256	2.28	7	10	u
Molybdenum	ND	0.913	ND	4.57	--	10	u
Nickel	37.4	0.913	40.9	4.57	9	10	u
Selenium	ND	0.228	ND	1.14	--	10	u
Silver	ND	0.228	ND	1.14	--	10	u
Thallium	ND	0.228	ND	1.14	--	10	u
Vanadium	27.9	0.457	29.5	2.28	6	10	u
Zinc	29.1	0.913	32.0	4.57	10	10	u
Titanium	360	0.457	370	2.28	3	10	u

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73315766040	Seqnum : 73315766041
Filename : tr212915	Filename : tr212916
IDF : 10.0	IDF : 50.0
PDF : 45.66210	PDF : 45.66210
Run type : MSS	Run type : SER
Samplenum: 166682-013	Samplenum: QC221503
Matrix : Soil	Matrix : Soil
Batchnum : 83485	Batchnum : 83485
Inj : 07-AUG-2003 10:39	Inj : 07-AUG-2003 10:42
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	6960	45.7	6980	228	0	10	u
Antimony	ND	27.4	ND	137	--	10	
Arsenic	ND	2.28	ND	11.4	--	10	
Barium	33.4	4.57	34.0	22.8	--	10	
Beryllium	ND	0.913	ND	4.57	--	10	
Cadmium	ND	2.28	ND	11.4	--	10	
Calcium	2720	228	2800	1140	3	10	
Chromium	51.1	4.57	51.1	22.8	0	10	
Cobalt	ND	9.13	ND	45.7	--	10	
Copper	5.39	4.57	ND	22.8	--	10	
Iron	11000	45.7	11300	228	2	10	u
Lead	12.1	1.37	12.4	6.85	--	10	
Magnesium	2170	228	2230	1140	--	10	
Manganese	254	4.57	260	22.8	3	10	
Molybdenum	ND	9.13	ND	45.7	--	10	
Nickel	40.6	9.13	ND	45.7	--	10	
Selenium	ND	2.28	ND	11.4	--	10	
Silver	ND	2.28	ND	11.4	--	10	
Thallium	ND	2.28	ND	11.4	--	10	
Vanadium	29.1	4.57	29.2	22.8	--	10	
Zinc	31.9	9.13	ND	45.7	--	10	
Titanium	366	4.57	372	22.8	2	10	

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73317180086	Seqnum : 73317180087
Filename : tr213151	Filename : tr213152
IDF : 1.0	IDF : 5.0
PDF : 50.0	PDF : 50.0
Run type : MSS	Run type : SER
Samplenum: 166668-028	Samplenum: QC221750
Matrix : Soil	Matrix : Soil
Batchnum : 83546	Batchnum : 83546
Inj : 08-AUG-2003 14:02	Inj : 08-AUG-2003 14:09
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	4920	5.00	4800	25.0	2	10		u
Antimony	ND	3.00	ND	15.0	--	10		u
Arsenic	2.26	0.250	1.98	1.25	--	10		ab*
Barium	11.3	0.500	11.0	2.50	3	10		u
Beryllium	0.174	0.100	ND	0.500	--	10		u
Cadmium	0.850	0.250	ND	1.25	--	10		u
Calcium	3500	25.0	3400	125	3	10		u
Chromium	41.4	0.500	40.3	2.50	3	10		u
Cobalt	4.94	1.00	ND	5.00	--	10		u
Copper	3.27	0.500	2.98	2.50	--	10		u
Iron	*** usable MSS data not found ***							
Lead	3.58	0.150	3.48	0.750	3	10		u
Magnesium	2000	25.0	1980	125	1	10		u
Manganese	136	0.500	133	2.50	3	10		u
Molybdenum	ND	1.00	ND	5.00	--	10		u
Nickel	21.8	1.00	21.6	5.00	1	10		u
Selenium	ND	0.250	ND	1.25	--	10		u
Silver	ND	0.250	ND	1.25	--	10		u
Thallium	ND	0.250	ND	1.25	--	10		u
Vanadium	27.3	0.500	26.0	2.50	5	10		u
Zinc	15.1	1.00	15.2	5.00	1	10		u
Titanium	*** usable MSS data not found ***							

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13315951035	Seqnum : 13315951036
Filename : icp159862	Filename : icp159863
IDF : 1.0	IDF : 5.0
PDF : 46.51163	PDF : 46.51163
Run type : MSS	Run type : SER
Samplenum: 166682-007	Samplenum: QC221492
Matrix : Soil	Matrix : Soil
Batchnum : 83482	Batchnum : 83482
Inj : 07-AUG-2003 12:44	Inj : 07-AUG-2003 12:47
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.79	ND	14.0	--	10		
Arsenic	0.747	0.233	ND	1.16	--	10		
Barium	145	0.465	133	2.33	8	10		
Beryllium	0.248	0.0930	ND	0.465	--	10		
Cadmium	ND	0.233	ND	1.16	--	10		
Calcium	2640	23.3	2870	116	8	10		
Chromium	62.6	0.465	64.6	2.33	3	10		
Cobalt	11.9	0.930	13.2	4.65	11	10		f
Copper	13.9	0.465	12.8	2.33	8	10		
Iron	*** usable MSS data not found ***							
Lead	66.9	0.140	72.0	0.698	8	10		
Magnesium	3620	23.3	3690	116	2	10		
Manganese	339	0.465	353	2.33	4	10		
Molybdenum	ND	0.930	ND	4.65	--	10		
Nickel	55.7	0.930	59.3	4.65	7	10		
Potassium	568	23.3	537	116	5	10		
Selenium	10.0	0.233	ND	1.16	131	10		f
Silver	ND	0.233	ND	1.16	--	10		
Sodium	151	23.3	ND	116	--	10		
Thallium	ND	0.233	ND	1.16	--	10		
Vanadium	33.9	0.465	33.0	2.33	3	10		
Zinc	100	0.930	110	4.65	10	10		
Boron	*** usable MSS data not found ***							
Phosphorus	287	4.65	309	23.3	8	10		qu
Silicon	*** usable MSS data not found ***							
Sulfide	*** usable MSS data not found ***							
Tin	*** usable MSS data not found ***							
Titanium	421	0.465	408	2.33	3	10		

f=recovery failure q=closing CCV or CCB missing u=use

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13315951037	Seqnum : 13315951038
Filename : icp159864	Filename : icp159865
IDF : 5.0	IDF : 25.0
PDF : 46.51163	PDF : 46.51163
Run type : MSS	Run type : SER
Samplenum: 166682-007	Samplenum: QC221492
Matrix : Soil	Matrix : Soil
Batchnum : 83482	Batchnum : 83482
Inj : 07-AUG-2003 12:50	Inj : 07-AUG-2003 12:54
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	7800	23.3	8370	116	7	10		u
Antimony	ND	14.0	ND	69.8	--	10		
Arsenic	ND	1.16	ND	5.81	--	10		
Barium	134	2.33	143	11.6	7	10		
Beryllium	ND	0.465	ND	2.33	--	10		
Cadmium	ND	1.16	ND	5.81	--	10		
Calcium	2780	116	3000	581	8	10		
Chromium	63.8	2.33	67.2	11.6	5	10		
Cobalt	13.4	4.65	ND	23.3	--	10		
Copper	12.7	2.33	ND	11.6	--	10		
Iron	14300	23.3	15500	116	8	10		u
Lead	75.0	0.698	33.9	3.49	55	10		afb*
Magnesium	3650	116	3960	581	8	10		
Manganese	346	2.33	377	11.6	9	10		
Molybdenum	ND	4.65	ND	23.3	--	10		
Nickel	56.4	4.65	71.2	23.3	26	10		f
Potassium	474	116	ND	581	--	10		u
Selenium	7.67	1.16	ND	5.81	--	10		
Silver	ND	1.16	ND	5.81	--	10		
Sodium	ND	116	ND	581	--	10		u
Thallium	ND	1.16	ND	5.81	--	10		u
Vanadium	33.5	2.33	32.9	11.6	2	10		
Zinc	107	4.65	112	23.3	4	10		
Boron	*** usable MSS data not found ***							
Phosphorus	309	23.3	402	116	30	10		fq
Silicon	*** usable MSS data not found ***							
Sulfide	*** usable MSS data not found ***							
Tin	*** usable MSS data not found ***							
Titanium	404	2.33	431	11.6	6	10		

a=rsd out b=noncompliant f=recovery failure q=closing CCV or CCB missing u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01
Seqnum : 13315951054
Filename : icp159881
IDF : 1.0
PDF : 46.51163
Run type : PDS
Samplenum: QC221624
Matrix : Soil
Batchnum : 83482
Inj : 07-AUG-2003 14:02

MSS : 166682-007

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	13315951037	33560	20000	191400 >LR 118	15-150 ug/L	:>u
Antimony	13315951035	29.96	2000	1458 71	15-123 ug/L	u
Arsenic	13315951035	ND	1000	836.7 84	40-126 ug/L	u
Barium	13315951035	3109	2000	4872 88	19-138 ug/L	u
Beryllium	13315951035	5.339	50	52.39 94	58-120 ug/L	u
Cadmium	13315951035	4.792	200	163.1 79	47-120 ug/L	u
Calcium	13315951035	56850	20000	74020 86	16-150 ug/L	u
Chromium	13315951035	1346	2000	2920 79	35-131 ug/L	u
Cobalt	13315951035	255.1	500	658.4 81	39-120 ug/L	u
Copper	13315951035	298.3	250	514.0 86	32-150 ug/L	u
Iron	13315951037	61510	20000	305100 >LR -12	15-150 ug/L	:>u
Lead	13315951035	1439	2000	2872 72	23-137 ug/L	u
Magnesium	13315951035	77860	20000	93920 80	20-150 ug/L	u
Manganese	13315951035	7296	500	7507 42	15-150 ug/L	:u
Molybdenum	13315951035	ND	400	325.5 81	28-120 ug/L	u
Nickel	13315951035	1197	500	1569 74	32-136 ug/L	u
Potassium	13315951035	12220	10000	20770 86	22-150 ug/L	u
Selenium	13315951035	216.0	1000	997.5 78	38-120 ug/L	u
Silver	13315951035	ND	200	156.4 78	55-120 ug/L	u
Sodium	13315951035	3239	20000	20880 88	32-133 ug/L	u
Thallium	13315951035	ND	1000	720.2 72	50-120 ug/L	u
Vanadium	13315951035	728.8	500	1148 84	25-130 ug/L	u
Zinc	13315951035	2156	500	2549 79	20-147 ug/L	:u
Boron	*** usable MSS data not found ***					
Phosphorus	*** not spiked in PDS ***					
Silicon	*** not spiked in PDS ***					
Sulfide	*** not spiked in PDS ***					
Tin	*** usable MSS data not found ***					
Titanium	13315951035	9059	1000	9595 54	15-150 ug/L	:u

:recovery not meaningful >=>LR u=use

Method: 6010B Standard: blank
Run Time: 08/06/03 06:58:33

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.000	-.002	-.002	-.003	-.157	.005	.002
SDev	.001	.003	.001	.003	.003	.001	.000
%RSD	311.	130.	37.5	88.4	1.92	18.0	2.89
#1	.000	-.005	-.002	-.005	-.155	.005	.002
#2	-.001	-.000	-.001	-.001	-.159	.006	.002
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.023	.004	.009	.002	-.004	-.012
SDev	.000	.000	.003	.004	.001	.001	.001
%RSD	24.0	1.04	68.8	43.4	45.1	37.2	4.85
#1	-.002	-.023	.002	.012	.001	-.003	-.012
#2	-.001	-.023	.006	.006	.002	-.005	-.011
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.007	-.001	-.000	.031	.1884	.0004
SDev	.001	.002	.000	.001	.000	.0016	.0002
%RSD	42.3	33.2	67.0	182.	.307	.8256	64.28
#1	.004	-.008	-.000	-.001	.031	.1873	.0005
#2	.002	-.005	-.001	.000	.031	.1895	.0002
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0034	.0010	.003	.355			
SDev	.0004	.0009	.001	.004			
%RSD	12.36	94.28	25.4	.995			
#1	-.0031	.0017	.003	.358			
#2	-.0037	.0003	.002	.353			

Method: 6010B Standard: cst hi
 Run Time: 08/06/03 07:03:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.14	1.33	.492	69.3	8.27	2.78	.599
SDev	.08	.04	.001	.1	.02	.01	.000
%RSD	3.68	2.99	.125	.206	.196	.199	.024
#1	2.08	1.30	.491	69.2	8.25	2.77	.599
#2	2.19	1.36	.492	69.4	8.28	2.78	.599
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.70	1.51	1.84	1.92	3.43	4.55	.525
SDev	.00	.00	.00	.01	.02	.01	.007
%RSD	.097	.004	.041	.309	.472	.159	1.39
#1	1.70	1.51	1.84	1.92	3.42	4.55	.530
#2	1.70	1.51	1.84	1.92	3.44	4.56	.520
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.646	.703	.330	2.37	.384	.4723	.7088
SDev	.000	.001	.001	.01	.000	.0014	.0006
%RSD	.058	.101	.186	.227	.061	.2994	.0865
#1	.646	.702	.331	2.37	.384	.4713	.7083
#2	.647	.703	.330	2.38	.384	.4733	.7092
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2955	.4488	2.38	23.4			
SDev	.0004	.0004	.00	.0			
%RSD	.1276	.0945	.081	.152			
#1	.2952	.4485	2.37	23.4			
#2	.2957	.4491	2.38	23.4			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	465.908	.077651	08/06/03 07:03:54
Sb206A	206.832	Multiple	Standards	737.087	1.76901	08/06/03 07:03:54
As1890	189.042	Multiple	Standards	1014.63	1.65722	08/06/03 07:03:54
Ba4934	493.409	Multiple	Standards	14.4377	.046201	08/06/03 07:03:54
Be3130	313.042	Multiple	Standards	11.4698	1.80153	08/06/03 07:03:54
Cd2265	226.502	Multiple	Standards	36.0533	-.198293	08/06/03 07:03:54
Cr2677	267.716	Multiple	Standards	334.897	-.546999	08/06/03 07:03:54
Co2286	228.616	Multiple	Standards	294.072	.519526	08/06/03 07:03:54
Cu3247	324.754	Multiple	Standards	130.879	2.97313	08/06/03 07:03:54
Pb2203	220.351	Multiple	Standards	272.220	-1.02536	08/06/03 07:03:54
Pb220A	220.352	Multiple	Standards	259.615	-2.39712	08/06/03 07:03:54
Mo2020	202.030	Multiple	Standards	291.440	-.456590	08/06/03 07:03:54
Ni2316	231.604	Multiple	Standards	109.546	.416276	08/06/03 07:03:54
Se1960	196.021	Multiple	Standards	932.774	10.8824	08/06/03 07:03:54
Se196A	196.022	Multiple	Standards	776.901	-2.51198	08/06/03 07:03:54
Ag3280	328.068	Multiple	Standards	140.984	.921096	08/06/03 07:03:54
Tl1908	190.864	Multiple	Standards	1520.00	.962664	08/06/03 07:03:54
V_2924	292.402	Multiple	Standards	210.526	.098245	08/06/03 07:03:54
Zn2138	213.856	Multiple	Standards	293.699	-9.02635	08/06/03 07:03:54
Al3082	308.215	Multiple	Standards	3567.77	-672.287	08/06/03 07:03:54
Ca3179	317.933	Multiple	Standards	2823.30	-1.03521	08/06/03 07:03:54
Fe2714	271.441	Multiple	Standards	3488.87	11.9784	08/06/03 07:03:54
Mg2790	279.079	Multiple	Standards	4465.40	-4.46540	08/06/03 07:03:54
Mn2576	257.610	Multiple	Standards	42.1461	-.109580	08/06/03 07:03:54
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Ti3349	334.941	Multiple	Standards	43.3949	-15.4124	08/06/03 07:03:54

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350001

Run Name :
Filename : tr212702

Injected : 06-AUG-2003 07:10
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.0000	ug/L	0	5	
Antimony	1000.000	1020.000	ug/L	2	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2014.000	ug/L	1	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	501.0000	ug/L	0	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1001.000	ug/L	0	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2012.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	502.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	508.0000	ug/L	2	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	502.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350002

Run Name :
Filename : tr212703

Injected : 06-AUG-2003 07:15
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	494.4000	ug/L	-1	10	
Antimony	500.0000	492.0000	ug/L	-2	10	
Arsenic	250.0000	256.0000	ug/L	2	10	
Barium	500.0000	495.0000	ug/L	-1	10	
Beryllium	50.00000	51.80000	ug/L	4	10	
Cadmium	50.00000	49.60000	ug/L	-1	10	
Calcium	1000.000	1021.000	ug/L	2	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	250.0000	ug/L	0	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	505.1000	ug/L	1	10	
Lead	250.0000	252.0000	ug/L	1	10	
Magnesium	1000.000	1034.000	ug/L	3	10	
Manganese	50.00000	50.40000	ug/L	1	10	
Molybdenum	500.0000	503.0000	ug/L	1	10	
Nickel	250.0000	255.0000	ug/L	2	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	50.70000	ug/L	1	10	
Thallium	250.0000	248.0000	ug/L	-1	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	252.0000	ug/L	1	10	
Zinc	50.00000	50.10000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350004

Run Name :
Filename : tr212705

Injected : 06-AUG-2003 07:28
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	112.5000	ug/L	13	50
Antimony	60.00000	68.70000	ug/L	15	50
Arsenic	5.000000	5.770000	ug/L	15	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	1.810000	ug/L	-10	50
Cadmium	5.000000	4.790000	ug/L	-4	50
Chromium	10.00000	9.650000	ug/L	-4	50
Cobalt	20.00000	19.40000	ug/L	-3	50
Copper	10.00000	10.20000	ug/L	2	50
Iron	100.0000	106.0000	ug/L	6	50
Lead	3.000000	1.580000	ug/L	-47	50
Manganese	10.00000	9.820000	ug/L	-2	50
Molybdenum	20.00000	19.90000	ug/L	-1	50
Nickel	20.00000	20.10000	ug/L	1	50
Selenium	5.000000	5.890000	ug/L	18	50
Silver	5.000000	5.470000	ug/L	9	50
Thallium	5.000000	4.530000	ug/L	-9	50
Vanadium	10.00000	10.50000	ug/L	5	50
Zinc	20.00000	20.50000	ug/L	3	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350013

Run Name :
Filename : tr212714

Injected : 06-AUG-2003 08:23
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	502.0000	ug/L	0	10	
Antimony		500.0000	540.0000	ug/L	8	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	51.20000	ug/L	2	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	1034.000	ug/L	3	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	512.7000	ug/L	3	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1042.000	ug/L	4	10	
Manganese		50.00000	50.90000	ug/L	2	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350025

Run Name :
Filename : tr212726

Injected : 06-AUG-2003 09:41
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	759.3000	ug/L	1	10	
Antimony		750.0000	787.0000	ug/L	5	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	746.0000	ug/L	-1	10	
Beryllium		75.00000	78.00000	ug/L	4	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1582.000	ug/L	5	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	376.0000	ug/L	0	10	
Copper		150.0000	156.0000	ug/L	4	10	
Iron		750.0000	769.4000	ug/L	3	10	
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1571.000	ug/L	5	10	
Manganese		75.00000	77.20000	ug/L	3	10	
Molybdenum		750.0000	770.0000	ug/L	3	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	75.60000	ug/L	1	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	768.0000	ug/L	2	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	74.10000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350036

Run Name :
Filename : tr212737

Injected : 06-AUG-2003 10:50
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	231.6000	ug/L	-7	10	
Antimony		250.0000	272.0000	ug/L	9	10	
Arsenic		125.0000	122.0000	ug/L	-2	10	
Barium		250.0000	253.0000	ug/L	1	10	
Beryllium		25.00000	23.70000	ug/L	-5	10	
Cadmium		25.00000	24.30000	ug/L	-3	10	
Calcium		500.0000	477.7000	ug/L	-4	10	
Chromium		50.00000	49.50000	ug/L	-1	10	
Cobalt		125.0000	121.0000	ug/L	-3	10	
Copper		50.00000	51.00000	ug/L	2	10	
Iron		250.0000	239.4000	ug/L	-4	10	
Lead		125.0000	119.0000	ug/L	-5	10	
Magnesium		500.0000	482.1000	ug/L	-4	10	
Manganese		25.00000	24.10000	ug/L	-4	10	
Molybdenum		250.0000	244.0000	ug/L	-2	10	
Nickel		125.0000	124.0000	ug/L	-1	10	
Selenium		125.0000	118.0000	ug/L	-6	10	
Silver		25.00000	24.80000	ug/L	-1	10	
Thallium		125.0000	116.0000	ug/L	-7	10	
Titanium		250.0000	251.0000	ug/L	0	10	
Vanadium		125.0000	123.0000	ug/L	-2	10	
Zinc		25.00000	24.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350047

Run Name :
Filename : tr212748

Injected : 06-AUG-2003 11:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	706.6000	ug/L	-6		10	
Antimony		750.0000	750.0000	ug/L	0		10	
Arsenic		375.0000	367.0000	ug/L	-2		10	
Barium		750.0000	753.0000	ug/L	0		10	
Beryllium		75.00000	74.00000	ug/L	-1		10	
Cadmium		75.00000	73.20000	ug/L	-2		10	
Calcium		1500.000	1444.000	ug/L	-4		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	365.0000	ug/L	-3		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	764.9000	ug/L	2		10	
Lead		375.0000	363.0000	ug/L	-3		10	
Magnesium		1500.000	1471.000	ug/L	-2		10	
Manganese		75.00000	72.90000	ug/L	-3		10	
Molybdenum		750.0000	740.0000	ug/L	-1		10	
Nickel		375.0000	374.0000	ug/L	0		10	
Selenium		375.0000	354.0000	ug/L	-6		10	
Silver		75.00000	76.60000	ug/L	2		10	
Thallium		375.0000	357.0000	ug/L	-5		10	
Titanium		750.0000	749.0000	ug/L	0		10	
Vanadium		375.0000	370.0000	ug/L	-1		10	
Zinc		75.00000	71.60000	ug/L	-5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350059

Run Name :
Filename : tr212760

Injected : 06-AUG-2003 12:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	455.5000	ug/L	-9	10	
Antimony		500.0000	482.0000	ug/L	-4	10	
Arsenic		250.0000	243.0000	ug/L	-3	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	48.30000	ug/L	-3	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	963.1000	ug/L	-4	10	
Chromium		100.0000	98.50000	ug/L	-2	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	483.7000	ug/L	-3	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	972.8000	ug/L	-3	10	
Manganese		50.00000	48.00000	ug/L	-4	10	
Molybdenum		500.0000	492.0000	ug/L	-2	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	231.0000	ug/L	-8	10	
Silver		50.00000	48.80000	ug/L	-2	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	47.10000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350070

Run Name :
Filename : tr212771

Injected : 06-AUG-2003 13:15
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	685.5000	ug/L	-9	10	
Antimony		750.0000	759.0000	ug/L	1	10	
Arsenic		375.0000	372.0000	ug/L	-1	10	
Barium		750.0000	754.0000	ug/L	1	10	
Beryllium		75.00000	74.20000	ug/L	-1	10	
Cadmium		75.00000	73.70000	ug/L	-2	10	
Calcium		1500.000	1443.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	366.0000	ug/L	-2	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1469.000	ug/L	-2	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	357.0000	ug/L	-5	10	
Silver		75.00000	77.70000	ug/L	4	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	745.0000	ug/L	-1	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	71.60000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350082

Run Name :
Filename : tr212784

Injected : 06-AUG-2003 14:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	702.1000	ug/L	-6	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	74.40000	ug/L	-1	10	
Cadmium		75.00000	73.00000	ug/L	-3	10	
Calcium		1500.000	1439.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	737.1000	ug/L	-2	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1464.000	ug/L	-2	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	741.0000	ug/L	-1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	352.0000	ug/L	-6	10	
Silver		75.00000	79.10000	ug/L	5	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.40000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350094

Run Name :
Filename : tr212796

Injected : 06-AUG-2003 15:05
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	688.1000	ug/L	-8	10	
Antimony		750.0000	751.0000	ug/L	0	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	72.80000	ug/L	-3	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	711.5000	ug/L	-5	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	349.0000	ug/L	-7	10	
Silver		75.00000	80.40000	ug/L	7	10	
Thallium		375.0000	356.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.20000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350106

Run Name :
Filename : tr212809

Injected : 06-AUG-2003 16:03
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	443.2000	ug/L	-11	10	1 ***
Antimony		500.0000	482.0000	ug/L	-4	10	
Arsenic		250.0000	241.0000	ug/L	-4	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	48.00000	ug/L	-4	10	
Cadmium		50.00000	47.30000	ug/L	-5	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	97.40000	ug/L	-3	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	466.3000	ug/L	-7	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	954.1000	ug/L	-5	10	
Manganese		50.00000	47.20000	ug/L	-6	10	
Molybdenum		500.0000	491.0000	ug/L	-2	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	226.0000	ug/L	-10	10	
Silver		50.00000	49.00000	ug/L	-2	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	495.0000	ug/L	-1	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	46.80000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350118

Run Name :
Filename : tr212821

Injected : 06-AUG-2003 16:52
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	479.7000	ug/L	-4		10	
Antimony		500.0000	540.0000	ug/L	8		10	
Arsenic		250.0000	248.0000	ug/L	-1		10	
Barium		500.0000	487.0000	ug/L	-3		10	
Beryllium		50.00000	49.80000	ug/L	0		10	
Cadmium		50.00000	48.30000	ug/L	-3		10	
Calcium		1000.000	1032.000	ug/L	3		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	244.0000	ug/L	-2		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	501.0000	ug/L	0		10	
Lead		250.0000	245.0000	ug/L	-2		10	
Magnesium		1000.000	1011.000	ug/L	1		10	
Manganese		50.00000	49.30000	ug/L	-1		10	
Molybdenum		500.0000	495.0000	ug/L	-1		10	
Nickel		250.0000	248.0000	ug/L	-1		10	
Selenium		250.0000	237.0000	ug/L	-5		10	
Silver		50.00000	49.90000	ug/L	0		10	
Thallium		250.0000	239.0000	ug/L	-4		10	
Titanium		500.0000	500.0000	ug/L	0		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	48.30000	ug/L	-3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350130

Run Name :
Filename : tr212834

Injected : 06-AUG-2003 18:24
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	483.3000	ug/L	-3		10	
Antimony		500.0000	460.0000	ug/L	-8		10	
Arsenic		250.0000	255.0000	ug/L	2		10	
Barium		500.0000	486.0000	ug/L	-3		10	
Beryllium		50.00000	50.60000	ug/L	1		10	
Cadmium		50.00000	49.70000	ug/L	-1		10	
Calcium		1000.000	986.5000	ug/L	-1		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	100.0000	ug/L	0		10	
Iron		500.0000	531.0000	ug/L	6		10	
Lead		250.0000	246.0000	ug/L	-2		10	
Magnesium		1000.000	1006.000	ug/L	1		10	
Manganese		50.00000	49.50000	ug/L	-1		10	
Molybdenum		500.0000	500.0000	ug/L	0		10	
Nickel		250.0000	253.0000	ug/L	1		10	
Selenium		250.0000	241.0000	ug/L	-4		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	245.0000	ug/L	-2		10	
Titanium		500.0000	503.0000	ug/L	1		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	49.80000	ug/L	0		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350143

Run Name :
Filename : tr212847

Injected : 06-AUG-2003 19:27
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	457.3000	ug/L	-9	10	
Antimony		500.0000	457.0000	ug/L	-9	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	478.0000	ug/L	-4	10	
Beryllium		50.00000	48.80000	ug/L	-2	10	
Cadmium		50.00000	48.40000	ug/L	-3	10	
Calcium		1000.000	925.4000	ug/L	-7	10	
Chromium		100.0000	97.10000	ug/L	-3	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	96.80000	ug/L	-3	10	
Iron		500.0000	500.3000	ug/L	0	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	964.9000	ug/L	-4	10	
Manganese		50.00000	47.30000	ug/L	-5	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	236.0000	ug/L	-6	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	235.0000	ug/L	-6	10	
Titanium		500.0000	485.0000	ug/L	-3	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	47.90000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350154

Run Name :
Filename : tr212858

Injected : 06-AUG-2003 20:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	425.3000	ug/L	-15	10	1 ***
Antimony		500.0000	447.0000	ug/L	-11	10	1 ***
Arsenic		250.0000	239.0000	ug/L	-4	10	
Barium		500.0000	469.0000	ug/L	-6	10	
Beryllium		50.00000	46.80000	ug/L	-6	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	870.9000	ug/L	-13	10	1 ***
Chromium		100.0000	94.70000	ug/L	-5	10	
Cobalt		250.0000	232.0000	ug/L	-7	10	
Copper		100.0000	94.00000	ug/L	-6	10	
Iron		500.0000	470.4000	ug/L	-6	10	
Lead		250.0000	229.0000	ug/L	-8	10	
Magnesium		1000.000	920.0000	ug/L	-8	10	
Manganese		50.00000	45.00000	ug/L	-10	10	
Molybdenum		500.0000	465.0000	ug/L	-7	10	
Nickel		250.0000	237.0000	ug/L	-5	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	45.90000	ug/L	-8	10	
Thallium		250.0000	232.0000	ug/L	-7	10	
Titanium		500.0000	466.0000	ug/L	-7	10	
Vanadium		250.0000	230.0000	ug/L	-8	10	
Zinc		50.00000	46.20000	ug/L	-8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350165

Run Name :
Filename : tr212869

Injected : 06-AUG-2003 21:17
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	444.1000	ug/L	-11		10	1 ***
Antimony		500.0000	456.0000	ug/L	-9		10	
Arsenic		250.0000	247.0000	ug/L	-1		10	
Barium		500.0000	473.0000	ug/L	-5		10	
Beryllium		50.00000	48.40000	ug/L	-3		10	
Cadmium		50.00000	48.00000	ug/L	-4		10	
Calcium		1000.000	923.7000	ug/L	-8		10	
Chromium		100.0000	96.60000	ug/L	-3		10	
Cobalt		250.0000	239.0000	ug/L	-4		10	
Copper		100.0000	95.80000	ug/L	-4		10	
Iron		500.0000	489.0000	ug/L	-2		10	
Lead		250.0000	238.0000	ug/L	-5		10	
Magnesium		1000.000	956.3000	ug/L	-4		10	
Manganese		50.00000	47.00000	ug/L	-6		10	
Molybdenum		500.0000	479.0000	ug/L	-4		10	
Nickel		250.0000	244.0000	ug/L	-2		10	
Selenium		250.0000	235.0000	ug/L	-6		10	
Silver		50.00000	47.30000	ug/L	-5		10	
Thallium		250.0000	233.0000	ug/L	-7		10	
Titanium		500.0000	478.0000	ug/L	-4		10	
Vanadium		250.0000	237.0000	ug/L	-5		10	
Zinc		50.00000	48.80000	ug/L	-2		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73314350003
Filename: tr212704

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 06-AUG-2003 07:23

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[1.2910]	100.0000	ug/L	<RL	
Antimony	[2.9100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2400]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.2810]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2060]	10.00000	ug/L	<RL	
Copper	[0.0450]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.7860]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.6900]	20.00000	ug/L	<RL	
Nickel	[0.3930]	20.00000	ug/L	<RL	
Selenium	[4.1100]	5.000000	ug/L	<RL	
Silver	[0.3740]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.3890]	10.00000	ug/L	<RL	
Vanadium	[0.2940]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350014
Filename: tr212715

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 08:27

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[3.9700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1060]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.1290]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.0590]	10.00000	ug/L	<RL	
Iron	[3.1380]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.0840]	500.0000	ug/L	<RL	
Manganese	[0.0560]	10.00000	ug/L	<RL	
Molybdenum	[2.1600]	20.00000	ug/L	<RL	
Nickel	[0.1390]	20.00000	ug/L	<RL	
Selenium	[3.2400]	5.000000	ug/L	<RL	
Silver	[0.2160]	5.000000	ug/L	<RL	
Thallium	[3.8300]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350026
Filename: tr212727

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 09:44

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[0.2183]	100.0000	ug/L	<RL	
Antimony	[5.7700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2300]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0040]	5.000000	ug/L	<RL	
Calcium	[0.6589]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.4370]	10.00000	ug/L	<RL	
Copper	[0.4220]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[3.2740]	500.0000	ug/L	<RL	
Manganese	[0.0110]	10.00000	ug/L	<RL	
Molybdenum	[4.9900]	20.00000	ug/L	<RL	
Nickel	[0.4680]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.8200]	5.000000	ug/L	<RL	
Titanium	[1.2800]	10.00000	ug/L	<RL	
Vanadium	[0.2280]	10.00000	ug/L	<RL	
Zinc	[0.1520]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73314350037
Filename: tr212738

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 10:57.

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[2.1300]		60.00000	ug/L	<	RL
Arsenic	[0.3450]		5.000000	ug/L	<	RL
Barium	[0.1000]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[0.4354]		500.0000	ug/L	<	RL
Chromium	[0.1570]		10.00000	ug/L	<	RL
Cobalt	[0.3470]		10.00000	ug/L	<	RL
Copper	[0.7360]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[0.6982]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[0.8670]		20.00000	ug/L	<	RL
Nickel	[0.7410]		20.00000	ug/L	<	RL
Selenium	[0.4420]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.4380]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350048
Filename: tr212749

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 11:45

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[3.6390]	100.0000	ug/L	<	RL
Antimony	[13.300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.3390]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[6.8070]	500.0000	ug/L	<	RL
Chromium	[0.0330]	10.00000	ug/L	<	RL
Cobalt	[0.4820]	10.00000	ug/L	<	RL
Copper	[0.9730]	10.00000	ug/L	<	RL
Iron	[11.060]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[3.0760]	500.0000	ug/L	<	RL
Manganese	[0.1690]	10.00000	ug/L	<	RL
Molybdenum	[6.3000]	20.00000	ug/L	<	RL
Nickel	[0.6500]	20.00000	ug/L	<	RL
Selenium	[0.4350]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.7800]	5.000000	ug/L	<	RL
Titanium	[1.6300]	10.00000	ug/L	<	RL
Vanadium	[0.3650]	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350060
Filename: tr212761

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[0.2085]	100.0000	ug/L	<RL		
Antimony	[8.3900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0990]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.6105]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2220]	10.00000	ug/L	<RL		
Copper	[0.6460]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[1.4100]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[1.6600]	20.00000	ug/L	<RL		
Nickel	[0.5110]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.2700]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.1030]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350071
Filename: tr212772

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 13:19

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[13.900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2770]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[1.8330]	500.0000	ug/L	<RL		
Chromium	[0.0670]	10.00000	ug/L	<RL		
Cobalt	[0.3950]	10.00000	ug/L	<RL		
Copper	[0.8620]	10.00000	ug/L	<RL		
Iron	[1.5260]	100.0000	ug/L	<RL		
Lead	[0.9050]	3.000000	ug/L	<RL		
Magnesium	[0.2800]	500.0000	ug/L	<RL		
Manganese	[0.0080]	10.00000	ug/L	<RL		
Molybdenum	[6.3100]	20.00000	ug/L	<RL		
Nickel	[0.6780]	20.00000	ug/L	<RL		
Selenium	[0.6850]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.0200]	5.000000	ug/L	<RL		
Titanium	[0.3510]	10.00000	ug/L	<RL		
Vanadium	[0.3760]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350083
Filename: tr212785

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 14:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.3810]	100.0000	ug/L	<RL		
Antimony	[22.900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.3960]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[3.7540]	500.0000	ug/L	<RL		
Chromium	[0.3020]	10.00000	ug/L	<RL		
Cobalt	[0.3950]	10.00000	ug/L	<RL		
Copper	[1.1700]	10.00000	ug/L	<RL		
Iron	[13.980]	100.0000	ug/L	<RL		
Lead	[0.4270]	3.000000	ug/L	<RL		
Magnesium	[4.0540]	500.0000	ug/L	<RL		
Manganese	[0.1690]	10.00000	ug/L	<RL		
Molybdenum	[9.6800]	20.00000	ug/L	<RL		
Nickel	[0.7860]	20.00000	ug/L	<RL		
Selenium	[0.2330]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.3800]	10.00000	ug/L	<RL		
Vanadium	[0.4500]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350095
Filename: tr212797

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 15:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	[12.300]	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.2680]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[2.5300]	500.0000		ug/L	<	RL
Chromium	[0.2130]	10.00000		ug/L	<	RL
Cobalt	[0.3470]	10.00000		ug/L	<	RL
Copper	[0.9870]	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	[0.0120]	3.000000		ug/L	<	RL
Magnesium	[0.9781]	500.0000		ug/L	<	RL
Manganese	[0.0540]	10.00000		ug/L	<	RL
Molybdenum	[3.5400]	20.00000		ug/L	<	RL
Nickel	[0.8950]	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	[0.0250]	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[0.2570]	10.00000		ug/L	<	RL
Vanadium	[0.4380]	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350107
Filename: tr212810

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 16:09

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[10.300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2020]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.5227]	500.0000	ug/L	<RL	
Chromium	[0.1460]	10.00000	ug/L	<RL	
Cobalt	[0.1060]	10.00000	ug/L	<RL	
Copper	[0.8340]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.5579]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[2.2800]	20.00000	ug/L	<RL	
Nickel	[0.5100]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.6100]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.2630]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350119
Filename: tr212822

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 17:13

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[4.5700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0780]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[0.0350]	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.6530]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.0200]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[0.5100]	20.00000	ug/L	<RL	
Nickel	[0.4210]	20.00000	ug/L	<RL	
Selenium	[1.5100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.2190]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350132
Filename: tr212836

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 18:36

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<RL	
Antimony	ND	60.00000		ug/L	<RL	
Arsenic	ND	5.000000		ug/L	<RL	
Barium	[0.1240]	10.00000		ug/L	<RL	
Beryllium	ND	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	[1.4170]	500.0000		ug/L	<RL	
Chromium	[1.5500]	10.00000		ug/L	<RL	
Cobalt	[0.0500]	10.00000		ug/L	<RL	
Copper	[0.5680]	10.00000		ug/L	<RL	
Iron	[22.760]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	[0.7424]	500.0000		ug/L	<RL	
Manganese	[0.2020]	10.00000		ug/L	<RL	
Molybdenum	[1.3200]	20.00000		ug/L	<RL	
Nickel	[0.4110]	20.00000		ug/L	<RL	
Selenium	[1.2900]	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	ND	5.000000		ug/L	<RL	
Titanium	ND	10.00000		ug/L	<RL	
Vanadium	[0.1730]	10.00000		ug/L	<RL	
Zinc	ND	20.00000		ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350145
Filename: tr212849

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 19:38

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0970]	10.00000	ug/L	<RL	
Beryllium	[0.3520]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.4160]	500.0000	ug/L	<RL	
Chromium	[0.9220]	10.00000	ug/L	<RL	
Cobalt	[0.2000]	10.00000	ug/L	<RL	
Copper	[0.2000]	10.00000	ug/L	<RL	
Iron	[16.280]	100.0000	ug/L	<RL	
Lead	[0.8730]	3.000000	ug/L	<RL	
Magnesium	[0.0026]	500.0000	ug/L	<RL	
Manganese	[0.0710]	10.00000	ug/L	<RL	
Molybdenum	[0.6870]	20.00000	ug/L	<RL	
Nickel	[0.3040]	20.00000	ug/L	<RL	
Selenium	[1.2000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.3300]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.1200]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350156
Filename: tr212860

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 20:32

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000		ug/L	<RL	
Antimony	ND	60.00000		ug/L	<RL	
Arsenic	ND	5.000000		ug/L	<RL	
Barium	[0.1010]	10.00000		ug/L	<RL	
Beryllium	[0.5810]	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	[0.4746]	500.0000		ug/L	<RL	
Chromium	[1.4100]	10.00000		ug/L	<RL	
Cobalt	[0.1900]	10.00000		ug/L	<RL	
Copper	[0.2150]	10.00000		ug/L	<RL	
Iron	[17.120]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	[1.4810]	500.0000		ug/L	<RL	
Manganese	[0.0930]	10.00000		ug/L	<RL	
Molybdenum	ND	20.00000		ug/L	<RL	
Nickel	[0.3680]	20.00000		ug/L	<RL	
Selenium	ND	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	ND	5.000000		ug/L	<RL	
Titanium	ND	10.00000		ug/L	<RL	
Vanadium	[0.3930]	10.00000		ug/L	<RL	
Zinc	ND	20.00000		ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350167
Filename: tr212871

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 21:29

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1290]	10.00000	ug/L	<RL	
Beryllium	[0.2430]	2.000000	ug/L	<RL	
Cadmium	[0.0220]	5.000000	ug/L	<RL	
Calcium	[2.2650]	500.0000	ug/L	<RL	
Chromium	[2.0300]	10.00000	ug/L	<RL	
Cobalt	[0.2110]	10.00000	ug/L	<RL	
Copper	[0.2640]	10.00000	ug/L	<RL	
Iron	[23.220]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[0.1514]	500.0000	ug/L	<RL	
Manganese	[0.2780]	10.00000	ug/L	<RL	
Molybdenum	[0.7070]	20.00000	ug/L	<RL	
Nickel	[0.8080]	20.00000	ug/L	<RL	
Selenium	[0.0800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8700]	5.000000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[0.3030]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350005

Run Name :
Filename : tr212706

Injected : 06-AUG-2003 07:43
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	465200.0	ug/L	-7		
Antimony	500.0000	466.0000	ug/L	-7	20	
Arsenic	500.0000	481.0000	ug/L	-4	20	
Barium	500.0000	450.0000	ug/L	-10	20	
Beryllium	500.0000	426.0000	ug/L	-15	20	
Cadmium	1000.000	820.0000	ug/L	-18	20	
Calcium	500000.0	376200.0	ug/L	-25		
Chromium	500.0000	414.0000	ug/L	-17	20	
Cobalt	500.0000	410.0000	ug/L	-18	20	
Copper	500.0000	485.0000	ug/L	-3	20	
Iron	200000.0	164000.0	ug/L	-18		
Lead	1000.000	896.0000	ug/L	-10	20	
Magnesium	500000.0	465700.0	ug/L	-7		
Manganese	500.0000	429.0000	ug/L	-14	20	
Molybdenum	500.0000	436.0000	ug/L	-13	20	
Nickel	1000.000	889.0000	ug/L	-11	20	
Selenium	500.0000	456.0000	ug/L	-9	20	
Silver	1000.000	888.0000	ug/L	-11	20	
Thallium	500.0000	416.0000	ug/L	-17	20	
Titanium	20000.00	1790.000	ug/L	-91		
Vanadium	500.0000	432.0000	ug/L	-14	20	
Zinc	1000.000	882.0000	ug/L	-12	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350093

Run Name :
Filename : tr212795

Injected : 06-AUG-2003 14:48
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	445100.0	ug/L	-11			
Antimony	500.0000	438.0000	ug/L	-12		20	
Arsenic	500.0000	465.0000	ug/L	-7		20	
Barium	500.0000	462.0000	ug/L	-8		20	
Beryllium	500.0000	418.0000	ug/L	-16		20	
Cadmium	1000.000	807.0000	ug/L	-19		20	
Calcium	500000.0	358400.0	ug/L	-28			
Chromium	500.0000	414.0000	ug/L	-17		20	
Cobalt	500.0000	405.0000	ug/L	-19		20	
Copper	500.0000	487.0000	ug/L	-3		20	
Iron	200000.0	157700.0	ug/L	-21			
Lead	1000.000	892.0000	ug/L	-11		20	
Magnesium	500000.0	442200.0	ug/L	-12			
Manganese	500.0000	422.0000	ug/L	-16		20	
Molybdenum	500.0000	425.0000	ug/L	-15		20	
Nickel	1000.000	887.0000	ug/L	-11		20	
Selenium	500.0000	430.0000	ug/L	-14		20	
Silver	1000.000	960.0000	ug/L	-4		20	
Thallium	500.0000	417.0000	ug/L	-17		20	
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	431.0000	ug/L	-14		20	
Zinc	1000.000	867.0000	ug/L	-13		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350157

Run Name :
Filename : tr212861

Injected : 06-AUG-2003 20:36
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	432500.0	ug/L	-14		
Antimony	500.0000	442.0000	ug/L	-12	20	
Arsenic	500.0000	484.0000	ug/L	-3	20	
Barium	500.0000	437.0000	ug/L	-13	20	
Beryllium	500.0000	414.0000	ug/L	-17	20	
Cadmium	1000.000	844.0000	ug/L	-16	20	
Calcium	500000.0	349500.0	ug/L	-30		
Chromium	500.0000	413.0000	ug/L	-17	20	
Cobalt	500.0000	413.0000	ug/L	-17	20	
Copper	500.0000	462.0000	ug/L	-8	20	
Iron	200000.0	160500.0	ug/L	-20		
Lead	1000.000	914.0000	ug/L	-9	20	
Magnesium	500000.0	448900.0	ug/L	-10		
Manganese	500.0000	415.0000	ug/L	-17	20	
Molybdenum	500.0000	432.0000	ug/L	-14	20	
Nickel	1000.000	904.0000	ug/L	-10	20	
Selenium	500.0000	448.0000	ug/L	-10	20	
Silver	1000.000	923.0000	ug/L	-8	20	
Thallium	500.0000	430.0000	ug/L	-14	20	
Titanium	20000.00	1740.000	ug/L	-91		
Vanadium	500.0000	427.0000	ug/L	-15	20	
Zinc	1000.000	905.0000	ug/L	-10	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350168

Run Name :
Filename : tr212872

Injected : 06-AUG-2003 21:33
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	439300.0	ug/L	-12			
Antimony	500.0000	447.0000	ug/L	-11		20	
Arsenic	500.0000	482.0000	ug/L	-4		20	
Barium	500.0000	437.0000	ug/L	-13		20	
Beryllium	500.0000	418.0000	ug/L	-16		20	
Cadmium	1000.000	839.0000	ug/L	-16		20	
Calcium	500000.0	355800.0	ug/L	-29			
Chromium	500.0000	416.0000	ug/L	-17		20	
Cobalt	500.0000	415.0000	ug/L	-17		20	
Copper	500.0000	466.0000	ug/L	-7		20	
Iron	200000.0	161900.0	ug/L	-19			
Lead	1000.000	911.0000	ug/L	-9		20	
Magnesium	500000.0	451900.0	ug/L	-10			
Manganese	500.0000	421.0000	ug/L	-16		20	
Molybdenum	500.0000	429.0000	ug/L	-14		20	
Nickel	1000.000	902.0000	ug/L	-10		20	
Selenium	500.0000	447.0000	ug/L	-11		20	
Silver	1000.000	932.0000	ug/L	-7		20	
Thallium	500.0000	430.0000	ug/L	-14		20	
Titanium	20000.00	1750.000	ug/L	-91			
Vanadium	500.0000	430.0000	ug/L	-14		20	
Zinc	1000.000	902.0000	ug/L	-10		20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 06-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73314350

#	Filename Type	Sample Name	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212702 CS		06-AUG-2003 07:10	1.0	1.0		1	
002	tr212703 ICV		06-AUG-2003 07:15	1.0	1.0		2	
003	tr212704 ICB		06-AUG-2003 07:23	1.0	1.0			
004	tr212705 CRI		06-AUG-2003 07:28	1.0	1.0		3	
005	tr212706 ICSAB		06-AUG-2003 07:43	1.0	1.0		4	4:MG=465700
006	tr212707 BS	QC221247	83421 Soil	06-AUG-2003 07:49	1.0	50.0		
007	tr212708 BSD	QC221248	83421 Soil	06-AUG-2003 07:53	1.0	50.0		
008	tr212709 MS	QC221249	83421 Soil	06-AUG-2003 07:57	1.0	37.73585		2:FE=213000
009	tr212710 MSD	QC221250	83421 Soil	06-AUG-2003 08:01	1.0	48.54369	1	2:FE=202200
010	tr212711 MS	QC221252	83421 Soil	06-AUG-2003 08:05	1.0	41.15226		2:FE=161500
011	tr212712 MSD	QC221253	83421 Soil	06-AUG-2003 08:08	1.0	44.24779		2:FE=163900
012	tr212713 BLANK	QC221389	83456 Soil	06-AUG-2003 08:19	1.0	50.0		
013	tr212714 CCV		06-AUG-2003 08:23	1.0	1.0		5	
014	tr212715 CCB		06-AUG-2003 08:27	1.0	1.0			
015	tr212716 BS	QC221390	83456 Soil	06-AUG-2003 08:32	1.0	50.0		
016	tr212717 BSD	QC221391	83456 Soil	06-AUG-2003 08:36	1.0	50.0		
017	tr212718 MSS	166727-002	83456 Soil	06-AUG-2003 08:41	1.0	45.04505	1	1:FE=153100
018	tr212719 SER	QC221412	83456 Soil	06-AUG-2003 08:52	5.0	45.04505	1	
019	tr212720 MS	QC221392	83456 Soil	06-AUG-2003 08:56	1.0	47.84689		2:FE=177500
020	tr212721 MSD	QC221393	83456 Soil	06-AUG-2003 09:00	1.0	42.91845		2:FE=204500
021	tr212722 SAMPLE	166727-003	83456 Soil	06-AUG-2003 09:05	1.0	47.39336		2:FE=160000
022	tr212723 SAMPLE	166727-004	83456 Soil	06-AUG-2003 09:09	1.0	39.84064		1:FE=161900
023	tr212724 SAMPLE	166727-005	83456 Soil	06-AUG-2003 09:13	1.0	49.01961		1:FE=140500
024	tr212725 SAMPLE	166727-006	83456 Soil	06-AUG-2003 09:17	1.0	45.66210		1:FE=162200
025	tr212726 CCV		06-AUG-2003 09:41	1.0	1.0		6	
026	tr212727 CCB		06-AUG-2003 09:44	1.0	1.0			
027	tr212728 PDS	QC221419	83456 Soil	06-AUG-2003 09:49	1.0	45.04505	7	2:FE=167200
028	tr212729 SAMPLE	166727-007	83456 Soil	06-AUG-2003 09:53	1.0	44.84305		2:FE=192500
029	tr212730 SAMPLE	166727-008	83456 Soil	06-AUG-2003 09:57	1.0	48.07692		1:FE=159100
030	tr212731 SAMPLE	166727-009	83456 Soil	06-AUG-2003 10:23	1.0	40.32258		3:FE=195400
031	tr212732 SAMPLE	166727-010	83456 Soil	06-AUG-2003 10:27	1.0	39.37008		2:FE=184100
032	tr212733 SAMPLE	166727-011	83456 Soil	06-AUG-2003 10:31	1.0	41.15226		3:FE=188500

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Mei Ju Date: 8/6/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2003

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr212734 SAMPLE	166727-012	83456 Soil	06-AUG-2003 10:35 1.0	48.54369			1:FE=143700
034	tr212735 SAMPLE	166727-013	83456 Soil	06-AUG-2003 10:39 1.0	44.64286			2:FE=154400
035	tr212736 BLANK	QC221370	83452 Soil	06-AUG-2003 10:45 1.0	50.0			
036	tr212737 CCV			06-AUG-2003 10:50 1.0	1.0		9	
037	tr212738 CCB			06-AUG-2003 10:57 1.0	1.0			
038	tr212739 BS	QC221371	83452 Soil	06-AUG-2003 11:01 1.0	50.0			
039	tr212740 BSD	QC221372	83452 Soil	06-AUG-2003 11:04 1.0	50.0			
040	tr212741 MSS	166645-025	83452 Soil	06-AUG-2003 11:08 1.0	47.39336 1			1:FE=113600
041	tr212742 SER	QC221375	83452 Soil	06-AUG-2003 11:13 5.0	47.39336			
042	tr212743 MSS	166645-025	83452 Soil	06-AUG-2003 11:18 10.0	47.39336			
043	tr212744 SER	QC221375	83452 Soil	06-AUG-2003 11:21 50.0	47.39336			
044	tr212745 MS	QC221373	83452 Soil	06-AUG-2003 11:27 1.0	43.47826			1:FE=127400
045	tr212746 MSD	QC221374	83452 Soil	06-AUG-2003 11:31 1.0	45.24887			1:FE=129400
046	tr212747 SAMPLE	166645-011	83452 Soil	06-AUG-2003 11:34 1.0	41.49378 1			1:FE=100900
047	tr212748 CCV			06-AUG-2003 11:41 1.0	1.0		6	
048	tr212749 CCB			06-AUG-2003 11:45 1.0	1.0			
049	tr212750 SAMPLE	166645-018	83452 Soil	06-AUG-2003 11:49 1.0	37.73585 1			1:FE=155000
050	tr212751 SAMPLE	166645-024	83452 Soil	06-AUG-2003 11:53 1.0	41.32231 1			1:FE=129500
051	tr212752 SAMPLE	166706-001	83452 Soil	06-AUG-2003 11:56 1.0	34.60208			2:AL=249800
052	tr212753 SAMPLE	166706-002	83452 Soil	06-AUG-2003 12:00 1.0	49.75124 1			1:PB=55100.0
053	tr212754 SAMPLE	166706-003	83452 Soil	06-AUG-2003 12:03 1.0	46.29630 2			5:FE=218000
054	tr212755 SAMPLE	166706-002	83452 Soil	06-AUG-2003 12:07 20.0	49.75124			
055	tr212756 SAMPLE	166706-003	83452 Soil	06-AUG-2003 12:10 20.0	46.29630 1			1:PB=80700.0
056	tr212757 SAMPLE	166705-001	83452 Soil	06-AUG-2003 12:14 20.0	37.73585			
057	tr212758 SAMPLE	166645-011	83452 Soil	06-AUG-2003 12:18 10.0	41.49378			
058	tr212759 SAMPLE	166645-018	83452 Soil	06-AUG-2003 12:22 10.0	37.73585			
059	tr212760 CCV			06-AUG-2003 12:26 1.0	1.0		5	
060	tr212761 CCB			06-AUG-2003 12:34 1.0	1.0			
061	tr212762 BLANK	QC221383	83455 Water	06-AUG-2003 12:43 1.0	1.0			
062	tr212763 BS	QC221384	83455 Water	06-AUG-2003 12:47 1.0	1.0			
063	tr212764 BSD	QC221385	83455 Water	06-AUG-2003 12:50 1.0	1.0			
064	tr212765 MSS	166726-001	83455 Water	06-AUG-2003 12:54 1.0	1.0			

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Meswa Date: 8/6/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 06-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73314350

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
065	tr212766 MS	QC221386	83455 Water	06-AUG-2003 12:57 1.0	1.0			
066	tr212767 MSD	QC221387	83455 Water	06-AUG-2003 13:01 1.0	1.0			
067	tr212768 SAMPLE	166726-010	83455 Water	06-AUG-2003 13:04 1.0	1.0			
068	tr212769 SAMPLE	166727-001	83455 Water	06-AUG-2003 13:08 1.0	1.0			
069	tr212770 SAMPLE	166727-014	83455 Water	06-AUG-2003 13:11 1.0	1.0			
070	tr212771 CCV			06-AUG-2003 13:15 1.0	1.0		6	
071	tr212772 CCB			06-AUG-2003 13:19 1.0	1.0			
072	tr212773 SAMPLE	166706-003	83452 Soil	06-AUG-2003 13:23 40.0	46.29630			
073	tr212774 SAMPLE	166645-024	83452 Soil	06-AUG-2003 13:28 10.0	41.32231			
074	tr212775 BLANK	QC221394	83457 Soil	06-AUG-2003 13:34 1.0	50.0			
075	tr212776 BS	QC221395	83457 Soil	06-AUG-2003 13:37 1.0	50.0			
076	tr212777 BSD	QC221396	83457 Soil	06-AUG-2003 13:40 1.0	50.0			
077	tr212778 MSS	166726-002	83457 Soil	06-AUG-2003 13:44 1.0	49.26108 2			2:FE=254100
078	tr212779 MS	QC221397	83457 Soil	06-AUG-2003 13:47 1.0	48.78049			2:FE=276400
079	tr212780 MSD	QC221398	83457 Soil	06-AUG-2003 13:51 1.0	47.39336			3:FE=344100
080	tr212781 SAMPLE	166726-003	83457 Soil	06-AUG-2003 13:55 1.0	42.55319			2:FE=328000
081	tr212782 SAMPLE	166726-004	83457 Soil	06-AUG-2003 13:58 1.0	46.29630			2:FE=250100
082	tr212784 CCV			06-AUG-2003 14:08 1.0	1.0		6	
083	tr212785 CCB			06-AUG-2003 14:12 1.0	1.0			
084	tr212786 SER	QC221410	83457 Soil	06-AUG-2003 14:15 5.0	49.26108			2:FE=318100
085	tr212787 SAMPLE	166726-005	83457 Soil	06-AUG-2003 14:19 1.0	48.07692			2:FE=275000
086	tr212788 SAMPLE	166726-006	83457 Soil	06-AUG-2003 14:23 1.0	44.44444			2:FE=311500
087	tr212789 SAMPLE	166726-007	83457 Soil	06-AUG-2003 14:26 1.0	47.84689			3:FE=373000
088	tr212790 SAMPLE	166726-008	83457 Soil	06-AUG-2003 14:30 1.0	43.29004			3:FE=434100
089	tr212791 SAMPLE	166726-009	83457 Soil	06-AUG-2003 14:33 1.0	44.64286			3:AL=313100
090	tr212792 SAMPLE	166726-011	83457 Soil	06-AUG-2003 14:37 1.0	43.47826			3:FE=255100
091	tr212793 SAMPLE	166726-012	83457 Soil	06-AUG-2003 14:40 1.0	49.01961			3:FE=291700
092	tr212794 SAMPLE	166726-013	83457 Soil	06-AUG-2003 14:44 1.0	42.55319			4:AL=445100
093	tr212795 ICSAB			06-AUG-2003 14:48 1.0	1.0		4	
094	tr212796 CCV			06-AUG-2003 15:05 1.0	1.0		6	
095	tr212797 CCB			06-AUG-2003 15:12 1.0	1.0			
096	tr212798 BLANK	QC221358	83448 Wipe	06-AUG-2003 15:16 1.0	50.0	1		

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Ma. W. W. Date: 8/6/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 06-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73314350

#	Filename Type	Sample Num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr212799 BS	QC221359	83448	Wipe	06-AUG-2003	15:19	1.0	50.0	1				
098	tr212800 BSD	QC221360	83448	Wipe	06-AUG-2003	15:22	1.0	50.0	1				
099	tr212801 SAMPLE	166670-001	83448	Wipe	06-AUG-2003	15:26	1.0	50.0					
100	tr212802 SAMPLE	166671-001	83448	Wipe	06-AUG-2003	15:30	1.0	50.0					
101	tr212803 BLANK	QC221338	83444	Water	06-AUG-2003	15:36	1.0	1.0	1				
102	tr212804 BS	QC221339	83444	Water	06-AUG-2003	15:41	1.0	1.0	1				
103	tr212805 BSD	QC221340	83444	Water	06-AUG-2003	15:44	1.0	1.0	1				
104	tr212806 MSS	166677-001	83444	Water	06-AUG-2003	15:48	1.0	1.0	1				
105	tr212807 MS	QC221341	83444	Water	06-AUG-2003	15:51	1.0	1.0					
106	tr212809 CCV				06-AUG-2003	16:03	1.0	1.0	1		5		
107	tr212810 CCB				06-AUG-2003	16:09	1.0	1.0					
108	tr212811 MSD	QC221342	83444	Water	06-AUG-2003	16:14	1.0	1.0					
109	tr212812 SAMPLE	166677-002	83444	Water	06-AUG-2003	16:17	1.0	1.0					
110	tr212813 SAMPLE	166677-003	83444	Water	06-AUG-2003	16:21	1.0	1.0					
111	tr212814 SAMPLE	166677-004	83444	Water	06-AUG-2003	16:24	1.0	1.0					
112	tr212815 SAMPLE	166677-005	83444	Water	06-AUG-2003	16:28	1.0	1.0					
113	tr212816 SAMPLE	166677-006	83444	Water	06-AUG-2003	16:31	1.0	1.0					
114	tr212817 SAMPLE	166677-007	83444	Water	06-AUG-2003	16:35	1.0	1.0					
115	tr212818 SAMPLE	166677-008	83444	Water	06-AUG-2003	16:38	1.0	1.0					
116	tr212819 SAMPLE	166677-009	83444	Water	06-AUG-2003	16:42	1.0	1.0					
117	tr212820 SAMPLE	166677-010	83444	Water	06-AUG-2003	16:45	1.0	1.0					1:CA=166200
118	tr212821 CCV				06-AUG-2003	16:52	1.0	1.0			5		
119	tr212822 CCB				06-AUG-2003	17:13	1.0	1.0					
120	tr212824 BLANK	QC221487	83482	Soil	06-AUG-2003	17:32	1.0	50.0					
121	tr212825 BS	QC221488	83482	Soil	06-AUG-2003	17:36	1.0	50.0					
122	tr212826 BSD	QC221489	83482	Soil	06-AUG-2003	17:40	1.0	50.0					
123	tr212827 MSS	166682-007	83482	Soil	06-AUG-2003	17:47	1.0	46.51163	3				2:FE=287200
124	tr212828 SER	QC221492	83482	Soil	06-AUG-2003	17:53	5.0	46.51163	5				
125	tr212829 MS	QC221490	83482	Soil	06-AUG-2003	17:58	1.0	49.01961	1				3:FE=255500
126	tr212830 MSD	QC221491	83482	Soil	06-AUG-2003	18:02	1.0	46.72897					2:FE=282400
127	tr212831 MSS	166682-010	83482	Soil	06-AUG-2003	18:08	1.0	47.84689	2				2:FE=289200
128	tr212832 MS	QC221493	83482	Soil	06-AUG-2003	18:12	1.0	46.51163					2:FE=302900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Mei Wu Date: 8/6/03
Page 4 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
129	tr212833	MSD	QC221494	83482	Soil	06-AUG-2003	18:16	1.0	45.24887					2:FE=315200
130	tr212834	CCV				06-AUG-2003	18:24	1.0	1.0			5		
131	tr212835	X	rinse			06-AUG-2003	18:32	1.0	1.0					
132	tr212836	CCB				06-AUG-2003	18:36	1.0	1.0					
133	tr212837	SAMPLE	166668-011	83482	Soil	06-AUG-2003	18:40	1.0	45.24887	1				1:FE=134000
134	tr212838	SAMPLE	166668-012	83482	Soil	06-AUG-2003	18:45	1.0	46.29630	1				1:FE=137200
135	tr212839	SAMPLE	166682-001	83482	Soil	06-AUG-2003	18:49	1.0	46.94836	1				4:FE=308900
136	tr212840	SAMPLE	166682-003	83482	Soil	06-AUG-2003	18:53	1.0	44.84305					2:FE=153800
137	tr212841	SAMPLE	166682-006	83482	Soil	06-AUG-2003	18:57	1.0	43.10345					1:FE=173400
138	tr212842	SAMPLE	166682-008	83482	Soil	06-AUG-2003	19:02	1.0	45.04505					2:FE=221600
139	tr212843	SAMPLE	166682-009	83482	Soil	06-AUG-2003	19:06	1.0	41.32231					2:FE=253700
140	tr212844	SAMPLE	166682-011	83482	Soil	06-AUG-2003	19:10	1.0	46.08295					2:FE=257700
141	tr212845	SAMPLE	166682-012	83482	Soil	06-AUG-2003	19:15	1.0	46.94836					2:FE=223400
142	tr212846	SAMPLE	166682-015	83482	Soil	06-AUG-2003	19:19	1.0	47.39336					2:FE=181800
143	tr212847	CCV				06-AUG-2003	19:27	1.0	1.0			5		
144	tr212848	X	rinse			06-AUG-2003	19:33	1.0	1.0					
145	tr212849	CCB				06-AUG-2003	19:38	1.0	1.0					
146	tr212850	SAMPLE	166682-016	83482	Soil	06-AUG-2003	19:42	1.0	45.87156	1				2:FE=251200
147	tr212851	SAMPLE	166682-017	83482	Soil	06-AUG-2003	19:46	1.0	43.66812	1				2:FE=284700
148	tr212852	SAMPLE	166682-018	83482	Soil	06-AUG-2003	19:50	1.0	49.75124	1				2:FE=236200
149	tr212853	SAMPLE	166682-019	83482	Soil	06-AUG-2003	19:55	1.0	42.91845	1				2:FE=313900
150	tr212854	SAMPLE	166711-001	83482	Miscel	06-AUG-2003	19:59	1.0	46.94836					
151	tr212855	SAMPLE	166711-002	83482	Miscel	06-AUG-2003	20:03	1.0	48.30918					
152	tr212856	SAMPLE	166711-003	83482	Miscel	06-AUG-2003	20:08	1.0	44.44444					
153	tr212857	SAMPLE	166711-004	83482	Miscel	06-AUG-2003	20:12	1.0	47.16981					
154	tr212858	CCV				06-AUG-2003	20:20	1.0	1.0	3		5		
155	tr212859	X	rinse			06-AUG-2003	20:27	1.0	1.0					
156	tr212860	CCB				06-AUG-2003	20:32	1.0	1.0					
157	tr212861	ICSAB				06-AUG-2003	20:36	1.0	1.0			4		4:MG=448900
158	tr212862	SAMPLE	166677-011	83444	Water	06-AUG-2003	20:44	1.0	1.0					
159	tr212863	SAMPLE	166677-012	83444	Water	06-AUG-2003	20:48	1.0	1.0					
160	tr212864	SAMPLE	166677-013	83444	Water	06-AUG-2003	20:52	1.0	1.0					1:CA=353400

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Mo'Ch Date: 8/6/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds	Used	>LR
161	tr212865	SAMPLE	166677-014	83444	Water	06-AUG-2003	20:56	1.0	1.0					
162	tr212866	SAMPLE	166677-015	83444	Water	06-AUG-2003	21:01	1.0	1.0					
163	tr212867	SAMPLE	166701-001	83444	Water	06-AUG-2003	21:05	1.0	1.0	1				
164	tr212868	SAMPLE	166701-002	83444	Water	06-AUG-2003	21:09	1.0	1.0					1:ZN=3540.00
165	tr212869	CCV				06-AUG-2003	21:17	1.0	1.0	1			5	
166	tr212870	X	rinse			06-AUG-2003	21:25	1.0	1.0					
167	tr212871	CCB				06-AUG-2003	21:29	1.0	1.0					
168	tr212872	ICSAB				06-AUG-2003	21:33	1.0	1.0				4	4:MG=451900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: me. u Date: 8/6/03

Method: 6010B Standard: blank
Run Time: 08/07/03 09:43:36

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	-.0000	.0007	.0001	.0007	-.0004	.0008	.0003
SDev	.0004	.0042	.0002	.0002	.0002	.0004	.0004
%RSD	21960.	609.5	141.4	29.16	47.95	47.95	141.4
#1	.0003	.0036	.0000	.0006	-.0003	.0006	.0000
#2	-.0003	-.0023	.0003	.0008	-.0006	.0011	.0006
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0020	.0006	-.0001	-.0025	.0006	-.0003	.0030
SDev	.0004	.0008	.0006	.0032	.0008	.0004	.0026
%RSD	21.09	141.4	431.7	125.9	141.4	141.4	88.11
#1	.0017	.0000	-.0006	-.0003	.0011	-.0006	.0011
#2	.0023	.0011	.0003	-.0048	.0000	.0000	.0048
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.0001	.0014	.0015	.1686	.0007	-.0020	.0000
SDev	.0006	.0004	.0002	.0008	.0006	.0020	.0000
%RSD	417.1	27.41	13.76	.4987	85.43	101.5	.0000
#1	-.0003	.0017	.0014	.1692	.0003	-.0006	.0000
#2	.0006	.0011	.0017	.1680	.0011	-.0034	.0000
Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	
Avge	.0160	.0120	.0004	.0024	.0000	.0049	
SDev	.0005	.0011	.0026	.0018	.0004	.0025	
%RSD	3.392	8.960	629.5	75.52	21960.	51.74	
#1	.0156	.0128	.0022	.0011	-.0003	.0067	
#2	.0163	.0113	-.0014	.0037	.0003	.0031	

Method: 6010B Standard: cs hi

Run Time: 08/07/03 09:46:15

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.4346	1.192	9.566	.2558	2.961	.8716	.6449
SDev	.0009	.011	.026	.0009	.001	.0023	.0014
%RSD	.2197	.8987	.2757	.3606	.0372	.2673	.2243
#1	.4339	1.185	9.584	.2565	2.962	.8733	.6460
#2	.4353	1.200	9.547	.2552	2.960	.8700	.6439
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.055	.2640	2.016	1.616	.4429	.1513	.6176
SDev	.003	.0006	.005	.018	.0004	.0004	.0001
%RSD	.2443	.2077	.2472	1.129	.0913	.2621	.0101
#1	1.056	.2644	2.013	1.603	.4432	.1515	.6176
#2	1.053	.2636	2.020	1.628	.4426	.1510	.6175
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.6626	1.617	2.599	37.64	4.836	7.096	1.216
SDev	.0011	.002	.005	.02	.015	.023	.002
%RSD	.1638	.1467	.2089	.0606	.3100	.3301	.1823
#1	.6634	1.619	2.603	37.66	4.847	7.113	1.217
#2	.6619	1.615	2.595	37.62	4.825	7.080	1.214
Elem	K_7664	Na5889					
Avge	.6287	6.031					
SDev	.0012	.023					
%RSD	.1960	.3870					
#1	.6296	6.048					
#2	.6279	6.015					

Method: 6010B Standard: STD4

Run Time: 08/07/03 09:48:03

Elem	Sn1899	B_2496	Ti3349	P_1782	S_1820	Si2881
Avge	2.571	1.478	7.473	.8744	.1261	.2429
SDev	.014	.005	.004	.0011	.0016	.0023
%RSD	.5468	.3053	.0519	.1297	1.260	.9464
#1	2.561	1.481	7.476	.8752	.1272	.2445
#2	2.581	1.475	7.471	.8736	.1250	.2413

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	23089.0	.041645	08/07/03 09:46:15
As1890	189.042	Multiple	Standards	8391.46	-5.71605	08/07/03 09:46:15
Ba4934	493.409	Multiple	Standards	2090.84	-.294651	08/07/03 09:46:15
Be3130	313.042	Multiple	Standards	2037.16	-1.42808	08/07/03 09:46:15
Cd2288	228.802	Multiple	Standards	3387.66	1.42610	08/07/03 09:46:15
Cr2677	267.716	Multiple	Standards	2300.35	-1.93676	08/07/03 09:46:15
Co2286	228.616	Multiple	Standards	7804.42	-2.19967	08/07/03 09:46:15
Cu3247	324.754	Multiple	Standards	2379.27	-4.66841	08/07/03 09:46:15
Pb2203	220.353	Multiple	Standards	38146.0	-21.5028	08/07/03 09:46:15
Mo2020	202.030	Multiple	Standards	4960.80	.681203	08/07/03 09:46:15
Ni2316	231.604	Multiple	Standards	3089.74	7.83198	08/07/03 09:46:15
Se1960	196.026	Multiple	Standards	22557.8	-12.5530	08/07/03 09:46:15
Ag3280	328.068	Multiple	Standards	6454.82	1.79600	08/07/03 09:46:15
Tl1908	190.864	Multiple	Standards	16277.0	-48.0528	08/07/03 09:46:15
V_2924	292.402	Multiple	Standards	7408.98	-1.05747	08/07/03 09:46:15
Zn2138	213.856	Multiple	Standards	3087.33	-4.31739	08/07/03 09:46:15
Al3961	396.153	Multiple	Standards	7803.40	-12.0262	08/07/03 09:46:15
Ca3179	317.933	Multiple	Standards	1334.36	-224.942	08/07/03 09:46:15
Fe2599	259.940	Multiple	Standards	2068.15	-1.45353	08/07/03 09:46:15
Mg2790	279.079	Multiple	Standards	7011.95	13.8089	08/07/03 09:46:15
Mn2576	257.610	Multiple	Standards	4111.70	-.000000	08/07/03 09:46:15
K_7664	766.491	Multiple	Standards	81597.6	-1302.65	08/07/03 09:46:15
Na5889	588.995	Multiple	Standards	8306.44	-99.9807	08/07/03 09:46:15
Sn1899	189.989	STD4	blank	3889.83	-1.58839	08/07/03 09:48:03
B_2496	249.678	STD4	blank	6776.22	-16.1850	08/07/03 09:48:03
Ti3349	334.941	STD4	blank	1338.09	-.002414	08/07/03 09:48:03
P_1782	178.287	STD4	blank	11500.2	-56.2252	08/07/03 09:48:03
S_1820	182.040	STD4	STD1-Blank	189.668	-13.9216	08/07/03 09:48:03
Si2881	288.158	STD4	STD1-Blank	18801.2	-5262.44	*08/07/03 09:48:03

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951001

Run Name :
Filename : icp159828

Injected : 07-AUG-2003 09:51
Caltype :

Standards: 03WS1092

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	20000.00	19950.00	ug/L	0	5	
Antimony	10000.00	9971.000	ug/L	0	5	
Arsenic	10000.00	10040.00	ug/L	0	5	
Barium	20000.00	19970.00	ug/L	0	5	
Beryllium	500.0000	497.5000	ug/L	-1	5	
Cadmium	10000.00	9968.000	ug/L	0	5	
Calcium	50000.00	49640.00	ug/L	-1	5	
Chromium	2000.000	1978.000	ug/L	-1	5	
Cobalt	5000.000	4975.000	ug/L	-1	5	
Copper	2500.000	2497.000	ug/L	0	5	
Iron	10000.00	9928.000	ug/L	-1	5	
Lead	10000.00	9940.000	ug/L	-1	5	
Magnesium	50000.00	49910.00	ug/L	0	5	
Manganese	5000.000	4961.000	ug/L	-1	5	
Molybdenum	10000.00	9902.000	ug/L	-1	5	
Nickel	5000.000	4950.000	ug/L	-1	5	
Potassium	50000.00	49630.00	ug/L	-1	5	
Selenium	10000.00	9934.000	ug/L	-1	5	
Silver	1000.000	996.4000	ug/L	0	5	
Sodium	50000.00	50190.00	ug/L	0	5	
Thallium	10000.00	10060.00	ug/L	1	5	
Vanadium	5000.000	4970.000	ug/L	-1	5	
Zinc	5000.000	4971.000	ug/L	-1	5	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951002

Run Name :
Filename : icp159829

Injected : 07-AUG-2003 09:54
Caltype :

Standards: 03WS1120

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Boron	10000.00	9888.000	ug/L	-1	5	
Phosphorus	10000.00	10020.00	ug/L	0	5	
Silicon	10000.00	-713.400	ug/L	-107	5	# ***
Tin	10000.00	9784.000	ug/L	-2	5	
Titanium	10000.00	9852.000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951003

Run Name :
Filename : icp159830

Injected : 07-AUG-2003 09:57
Caltpe :

Standards: 03WS1094

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	1006.000	ug/L	1		10	
Antimony	2000.000	2000.000	ug/L	0		10	
Arsenic	2000.000	1964.000	ug/L	-2		10	
Barium	1000.000	1028.000	ug/L	3		10	
Beryllium	2000.000	1973.000	ug/L	-1		10	
Boron	1000.000	1006.000	ug/L	1		10	
Cadmium	2000.000	2033.000	ug/L	2		10	
Calcium	2000.000	2067.000	ug/L	3		10	
Chromium	2000.000	2057.000	ug/L	3		10	
Cobalt	2000.000	2083.000	ug/L	4		10	
Copper	2000.000	2072.000	ug/L	4		10	
Iron	2000.000	2072.000	ug/L	4		10	
Lead	2000.000	1995.000	ug/L	0		10	
Magnesium	2000.000	2082.000	ug/L	4		10	
Manganese	2000.000	2073.000	ug/L	4		10	
Molybdenum	2000.000	2056.000	ug/L	3		10	
Nickel	2000.000	2106.000	ug/L	5		10	
Potassium	10000.00	10230.00	ug/L	2		10	
Selenium	2000.000	1991.000	ug/L	0		10	
Silver	1000.000	1013.000	ug/L	1		10	
Sodium	10000.00	10360.00	ug/L	4		10	
Thallium	2000.000	2034.000	ug/L	2		10	
Titanium	2000.000	2053.000	ug/L	3		10	
Vanadium	2000.000	2049.000	ug/L	2		10	
Zinc	2000.000	2072.000	ug/L	4		10	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
 Seqnum : 13315951004 Filename : icp159831 Injected : 07-AUG-2003 10:00
 Standards: 03WS1121 Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Boron	5000.000	5119.000	ug/L	2	10		
Phosphorus	5000.000	5106.000	ug/L	2	10		
Silicon	5000.000	-0.46390	ug/L	-100	10	v	***
Tin	5000.000	4986.000	ug/L	0	10		
Titanium	5000.000	5083.000	ug/L	2	10		

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951006

Run Name :
Filename : icp159833

Injected : 07-AUG-2003 10:08
Caltype :

Standards: 03WS1227

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	108.2000	ug/L	8	50	
Antimony	60.00000	53.85000	ug/L	-10	50	
Arsenic	500.0000	451.8000	ug/L	-10	50	
Barium	10.00000	10.02000	ug/L	0	50	
Beryllium	2.000000	1.329000	ug/L	-34	50	
Boron	20.00000	61.51000	ug/L	208	50	# ***
Cadmium	5.000000	5.220000	ug/L	4	50	
Calcium	500.0000	525.8000	ug/L	5	50	
Chromium	10.00000	11.92000	ug/L	19	50	
Cobalt	20.00000	16.03000	ug/L	-20	50	
Copper	10.00000	8.359000	ug/L	-16	50	
Iron	100.0000	129.5000	ug/L	30	50	
Lead	300.0000	317.7000	ug/L	6	50	
Magnesium	500.0000	534.1000	ug/L	7	50	
Manganese	10.00000	9.577000	ug/L	-4	50	
Molybdenum	20.00000	25.80000	ug/L	29	50	
Nickel	20.00000	28.63000	ug/L	43	50	
Phosphorus	100.0000	98.60000	ug/L	-1	50	
Potassium	500.0000	726.7000	ug/L	45	50	
Selenium	500.0000	503.7000	ug/L	1	50	
Silver	5.000000	4.434000	ug/L	-11	50	
Sodium	500.0000	507.6000	ug/L	2	50	
Thallium	500.0000	484.8000	ug/L	-3	50	
Tin	40.00000	31.43000	ug/L	-21	50	
Titanium	10.00000	10.26000	ug/L	3	50	
Vanadium	10.00000	9.292000	ug/L	-7	50	
Zinc	20.00000	21.83000	ug/L	9	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951016

Run Name :
Filename : icp159843

Injected : 07-AUG-2003 11:42
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	969.3000	ug/L	-3		10	
Antimony		2000.000	1993.000	ug/L	0		10	
Arsenic		2000.000	1974.000	ug/L	-1		10	
Barium		1000.000	971.4000	ug/L	-3		10	
Beryllium		2000.000	1911.000	ug/L	-4		10	
Boron		1000.000	2058.000	ug/L	106		10	1 ***
Cadmium		2000.000	2102.000	ug/L	5		10	
Calcium		2000.000	2115.000	ug/L	6		10	
Chromium		2000.000	2008.000	ug/L	0		10	
Cobalt		2000.000	2065.000	ug/L	3		10	
Copper		2000.000	1980.000	ug/L	-1		10	
Iron		2000.000	2025.000	ug/L	1		10	
Lead		2000.000	2004.000	ug/L	0		10	
Magnesium		2000.000	1990.000	ug/L	-1		10	
Manganese		2000.000	2051.000	ug/L	3		10	
Molybdenum		2000.000	2056.000	ug/L	3		10	
Nickel		2000.000	2085.000	ug/L	4		10	
Potassium		10000.00	9452.000	ug/L	-5		10	
Selenium		2000.000	1885.000	ug/L	-6		10	
Silver		1000.000	1018.000	ug/L	2		10	
Sodium		10000.00	10090.00	ug/L	1		10	
Thallium		2000.000	2064.000	ug/L	3		10	
Titanium		2000.000	1943.000	ug/L	-3		10	
Vanadium		2000.000	2028.000	ug/L	1		10	
Zinc		2000.000	2103.000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951017

Run Name :
Filename : icp159844

Injected : 07-AUG-2003 11:46
Caltype :

Standards: 03WS1122

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Boron		5000.000	6472.000	ug/L	29	10	1 ***
Phosphorus		5000.000	5053.000	ug/L	1	10	
Silicon		5000.000	12830.00	ug/L	157	10	1 ***
Tin		5000.000	5143.000	ug/L	3	10	
Titanium		5000.000	5147.000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951029

Run Name :
Filename : icp159856

Injected : 07-AUG-2003 12:22
Caltpe :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	992.3000	ug/L	-1		10	
Antimony		2000.000	1928.000	ug/L	-4		10	
Arsenic		2000.000	1975.000	ug/L	-1		10	
Barium		1000.000	999.7000	ug/L	0		10	
Beryllium		2000.000	1956.000	ug/L	-2		10	
Boron		1000.000	2636.000	ug/L	164		10	1 ***
Cadmium		2000.000	2036.000	ug/L	2		10	
Calcium		2000.000	2085.000	ug/L	4		10	
Chromium		2000.000	1951.000	ug/L	-2		10	
Cobalt		2000.000	2027.000	ug/L	1		10	
Copper		2000.000	2014.000	ug/L	1		10	
Iron		2000.000	2032.000	ug/L	2		10	
Lead		2000.000	1992.000	ug/L	0		10	
Magnesium		2000.000	2004.000	ug/L	0		10	
Manganese		2000.000	2017.000	ug/L	1		10	
Molybdenum		2000.000	2039.000	ug/L	2		10	
Nickel		2000.000	2053.000	ug/L	3		10	
Potassium		10000.00	9747.000	ug/L	-3		10	
Selenium		2000.000	1901.000	ug/L	-5		10	
Silver		1000.000	1003.000	ug/L	0		10	
Sodium		10000.00	10500.00	ug/L	5		10	
Thallium		2000.000	2035.000	ug/L	2		10	
Titanium		2000.000	2020.000	ug/L	1		10	
Vanadium		2000.000	2017.000	ug/L	1		10	
Zinc		2000.000	2051.000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951030

Run Name :
Filename : icp159857

Injected : 07-AUG-2003 12:25
Caltype :

Standards: 03WS1122

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Boron		5000.000	6944.000	ug/L	39		10	1 ***
Phosphorus		5000.000	5212.000	ug/L	4		10	
Silicon		5000.000	9737.000	ug/L	95		10	1 ***
Tin		5000.000	5033.000	ug/L	1		10	
Titanium		5000.000	5125.000	ug/L	3		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951042

Run Name :
Filename : icp159869

Injected : 07-AUG-2003 13:20
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	957.0000	ug/L	-4	10	
Antimony		2000.000	1826.000	ug/L	-9	10	
Arsenic		2000.000	1919.000	ug/L	-4	10	
Barium		1000.000	1006.000	ug/L	1	10	
Beryllium		2000.000	1957.000	ug/L	-2	10	
Boron		1000.000	3510.000	ug/L	251	10	1 ***
Cadmium		2000.000	1927.000	ug/L	-4	10	
Calcium		2000.000	1972.000	ug/L	-1	10	
Chromium		2000.000	1881.000	ug/L	-6	10	
Cobalt		2000.000	1956.000	ug/L	-2	10	
Copper		2000.000	2020.000	ug/L	1	10	
Iron		2000.000	1951.000	ug/L	-2	10	
Lead		2000.000	1913.000	ug/L	-4	10	
Magnesium		2000.000	1958.000	ug/L	-2	10	
Manganese		2000.000	1951.000	ug/L	-2	10	
Molybdenum		2000.000	1982.000	ug/L	-1	10	
Nickel		2000.000	2048.000	ug/L	2	10	
Potassium		10000.00	9798.000	ug/L	-2	10	
Selenium		2000.000	1891.000	ug/L	-5	10	
Silver		1000.000	975.3000	ug/L	-2	10	
Sodium		10000.00	10470.00	ug/L	5	10	
Thallium		2000.000	2043.000	ug/L	2	10	
Titanium		2000.000	1979.000	ug/L	-1	10	
Vanadium		2000.000	1971.000	ug/L	-1	10	
Zinc		2000.000	1974.000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951055

Run Name :
Filename : icp159882

Injected : 07-AUG-2003 14:10
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	977.4000	ug/L	-2		10	
Antimony		2000.000	1845.000	ug/L	-8		10	
Arsenic		2000.000	1921.000	ug/L	-4		10	
Barium		1000.000	1026.000	ug/L	3		10	
Beryllium		2000.000	1983.000	ug/L	-1		10	
Boron		1000.000	4457.000	ug/L	346		10	1 ***
Cadmium		2000.000	1944.000	ug/L	-3		10	
Calcium		2000.000	2002.000	ug/L	0		10	
Chromium		2000.000	1885.000	ug/L	-6		10	
Cobalt		2000.000	1972.000	ug/L	-1		10	
Copper		2000.000	2039.000	ug/L	2		10	
Iron		2000.000	1968.000	ug/L	-2		10	
Lead		2000.000	1928.000	ug/L	-4		10	
Magnesium		2000.000	2012.000	ug/L	1		10	
Manganese		2000.000	1957.000	ug/L	-2		10	
Molybdenum		2000.000	2032.000	ug/L	2		10	
Nickel		2000.000	2056.000	ug/L	3		10	
Potassium		10000.00	9666.000	ug/L	-3		10	
Selenium		2000.000	1887.000	ug/L	-6		10	
Silver		1000.000	984.9000	ug/L	-2		10	
Sodium		10000.00	10520.00	ug/L	5		10	
Thallium		2000.000	2117.000	ug/L	6		10	
Titanium		2000.000	1992.000	ug/L	0		10	
Vanadium		2000.000	1996.000	ug/L	0		10	
Zinc		2000.000	1988.000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951005
Filename: icp159832

TJA ICP
Run Name:
Blank Type: ICB

Injected: 07-AUG-2003 10:03

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[9.9860]	60.00000	ug/L	<RL		
Arsenic	ND	500.0000	ug/L	<RL		
Barium	[0.0024]	10.00000	ug/L	<RL		
Beryllium	[0.8866]	2.000000	ug/L	<RL		
Boron	[11.480]	100.0000	ug/L	<RL		
Cadmium	[1.4510]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	20.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[2.3950]	100.0000	ug/L	<RL		
Lead	ND	300.0000	ug/L	<RL		
Magnesium	[13.910]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[7.7580]	20.00000	ug/L	<RL		
Nickel	[9.1850]	20.00000	ug/L	<RL		
Phosphorus	[7.8700]	100.0000	ug/L	<RL		
Potassium	[165.50]	500.0000	ug/L	<RL		
Selenium	[0.4134]	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	[0.8926]	5.000000	ug/L	<RL		
Sodium	[24.520]	500.0000	ug/L	<RL		
Sulfide	10.39000	1.000000	mg/L	<RL	d	***
Thallium	ND	500.0000	ug/L	<RL		
Tin	[6.7250]	40.00000	ug/L	<RL		
Titanium	[5.7300]	10.00000	ug/L	<RL		
Vanadium	[3.2440]	10.00000	ug/L	<RL		
Zinc	[0.0899]	20.00000	ug/L	<RL		

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951018
Filename: icp159845

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 11:51

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[16.240]		60.00000	ug/L	<RL	
Arsenic	[29.830]		500.0000	ug/L	<RL	
Barium	[0.5908]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Boron	1424.000		100.0000	ug/L	<RL	d ***
Cadmium	[0.8556]		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	[1.0610]		20.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	ND		300.0000	ug/L	<RL	
Magnesium	[10.010]		500.0000	ug/L	<RL	
Manganese	[1.1580]		10.00000	ug/L	<RL	
Molybdenum	[9.1040]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Phosphorus	[73.800]		100.0000	ug/L	<RL	
Potassium	[398.00]		500.0000	ug/L	<RL	
Selenium	ND		500.0000	ug/L	<RL	
Silicon	8479.000		200.0000	ug/L	<RL	d ***
Silver	ND		5.000000	ug/L	<RL	
Sodium	[7.9720]		500.0000	ug/L	<RL	
Sulfide	8.661000		1.000000	mg/L	<RL	d ***
Thallium	ND		500.0000	ug/L	<RL	
Tin	[39.250]		40.00000	ug/L	<RL	
Titanium	11.49000		10.00000	ug/L	<RL	d ***
Vanadium	[0.0809]		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951031
Filename: icp159858

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 12:28

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[25.390]	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[0.5644]	10.00000	ug/L	<RL	
Beryllium	[0.2428]	2.000000	ug/L	<RL	
Boron	1829.000	100.0000	ug/L	<RL	d ***
Cadmium	[2.4120]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[5.3580]	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[20.300]	300.0000	ug/L	<RL	
Magnesium	[7.2850]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[8.8460]	20.00000	ug/L	<RL	
Nickel	[4.5950]	20.00000	ug/L	<RL	
Phosphorus	[61.120]	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	8611.000	200.0000	ug/L	<RL	d ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	[5.6240]	500.0000	ug/L	<RL	
Sulfide	8.563000	1.000000	mg/L	<RL	d ***
Thallium	ND	500.0000	ug/L	<RL	
Tin	54.16000	40.00000	ug/L	<RL	d ***
Titanium	[5.5690]	10.00000	ug/L	<RL	
Vanadium	[0.0386]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951043
Filename: icp159870

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 13:24

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[11.720]		60.00000	ug/L	<RL	
Arsenic	ND		500.0000	ug/L	<RL	
Barium	[0.2349]		10.00000	ug/L	<RL	
Beryllium	[0.3862]		2.000000	ug/L	<RL	
Boron	2537.000		100.0000	ug/L	<RL	d ***
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	[0.3922]		10.00000	ug/L	<RL	
Cobalt	[0.2021]		20.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	[7.5200]		300.0000	ug/L	<RL	
Magnesium	[10.360]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	[6.9840]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Phosphorus	[41.540]		100.0000	ug/L	<RL	
Potassium	ND		500.0000	ug/L	<RL	
Selenium	ND		500.0000	ug/L	<RL	
Silicon	3092.000		200.0000	ug/L	<RL	d ***
Silver	ND		5.000000	ug/L	<RL	
Sodium	ND		500.0000	ug/L	<RL	
Sulfide	10.58000		1.000000	mg/L	<RL	d ***
Thallium	ND		500.0000	ug/L	<RL	
Tin	[9.1630]		40.00000	ug/L	<RL	
Titanium	[0.3539]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

d=blank contam/missing

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951056
Filename: icp159883

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 14:27

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[11.790]	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	3498.000	100.0000	ug/L	<RL	d ***
Cadmium	[0.1316]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[4.1170]	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	[19.100]	500.0000	ug/L	<RL	
Manganese	[1.0170]	10.00000	ug/L	<RL	
Molybdenum	[4.3490]	20.00000	ug/L	<RL	
Nickel	[3.2840]	20.00000	ug/L	<RL	
Phosphorus	[25.680]	100.0000	ug/L	<RL	
Potassium	[91.110]	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	1324.000	200.0000	ug/L	<RL	d ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	7.277000	1.000000	mg/L	<RL	d ***
Thallium	ND	500.0000	ug/L	<RL	
Tin	[1.2600]	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951007

Run Name :
Filename : icp159834

Injected : 07-AUG-2003 10:21
Caltype :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	543400.0	ug/L	9			
Antimony	2000.000	2017.000	ug/L	1	20		
Arsenic	2000.000	1925.000	ug/L	-4	20		
Barium	500.0000	482.1000	ug/L	-4	20		
Beryllium	500.0000	474.5000	ug/L	-5	20		
Cadmium	1000.000	963.9000	ug/L	-4	20		
Calcium	500000.0	3011000	ug/L	502			
Chromium	500.0000	477.2000	ug/L	-5	20		
Cobalt	500.0000	495.6000	ug/L	-1	20		
Copper	500.0000	498.4000	ug/L	0	20		
Iron	200000.0	184600.0	ug/L	-8			
Lead	1000.000	922.0000	ug/L	-8	20		
Magnesium	500000.0	501100.0	ug/L	0			
Manganese	500.0000	500.9000	ug/L	0	20		
Molybdenum	500.0000	440.2000	ug/L	-12	20		
Nickel	1000.000	962.8000	ug/L	-4	20		
Selenium	2000.000	2105.000	ug/L	5	20		
Silver	1000.000	968.6000	ug/L	-3	20		
Thallium	2000.000	2016.000	ug/L	1	20		
Titanium	2000.000	1946.000	ug/L	-3	20		
Vanadium	500.0000	469.0000	ug/L	-6	20		
Zinc	1000.000	985.3000	ug/L	-1	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951057

Run Name :
Filename : icp159884

Injected : 07-AUG-2003 14:41
Caltpe :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	539300.0	ug/L	8			
Antimony	2000.000	1844.000	ug/L	-8	20		
Arsenic	2000.000	1935.000	ug/L	-3	20		
Barium	500.0000	493.3000	ug/L	-1	20		
Beryllium	500.0000	485.5000	ug/L	-3	20		
Cadmium	1000.000	944.6000	ug/L	-6	20		
Calcium	500000.0	2710000	ug/L	442			
Chromium	500.0000	444.4000	ug/L	-11	20		
Cobalt	500.0000	473.4000	ug/L	-5	20		
Copper	500.0000	501.5000	ug/L	0	20		
Iron	200000.0	178000.0	ug/L	-11			
Lead	1000.000	1059.000	ug/L	6	20		
Magnesium	500000.0	489600.0	ug/L	-2			
Manganese	500.0000	485.8000	ug/L	-3	20		
Molybdenum	500.0000	446.8000	ug/L	-11	20		
Nickel	1000.000	911.0000	ug/L	-9	20		
Selenium	2000.000	1943.000	ug/L	-3	20		
Silver	1000.000	953.1000	ug/L	-5	20		
Thallium	2000.000	2005.000	ug/L	0	20		
Titanium	2000.000	1939.000	ug/L	-3	20		
Vanadium	500.0000	471.0000	ug/L	-6	20		
Zinc	1000.000	949.4000	ug/L	-5	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 13315951 Instrument: MET01 TJA ICP Begun: 07-AUG-2003

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	icp15982 CS		07-AUG-2003 09:51	1.0	1.0		1	1:S=17.3800
002	icp15982 CS		07-AUG-2003 09:54	1.0	1.0	1	2	1:S=11.3700
003	icp15983 ICV		07-AUG-2003 09:57	1.0	1.0		3	1:S=11.7100
004	icp15983 ICV		07-AUG-2003 10:00	1.0	1.0	1	4	1:S=11.6900
005	icp15983 ICB		07-AUG-2003 10:03	1.0	1.0	4	5	1:S=10.3900
006	icp15983 CRI		07-AUG-2003 10:08	1.0	1.0	1	6	1:S=10.2900
007	icp15983 ICSAB		07-AUG-2003 10:21	1.0	1.0			5:CA=3011000
008	icp15983 BLANK	QC221477	83479 Air	07-AUG-2003 11:10	1.0	55.55556	6	2:SI=981500
009	icp15983 BLANK	QC221477	83479 Air	07-AUG-2003 11:19	1.0	55.55556	4	2:SI=1430000
010	icp15983 SAMPLE	166476-001	83479 Air	07-AUG-2003 11:22	1.0	55.55556		2:SI=4.50E+7
011	icp15983 MSS	166476-002	83479 Air	07-AUG-2003 11:28	1.0	55.55556	5	2:SI=4.70E+7
012	icp15983 MSS	166476-002	83479 Air	07-AUG-2003 11:30	1.0	55.55556	5	2:SI=4.60E+7
013	icp15984 SDUP	QC221478	83479 Air	07-AUG-2003 11:33	1.0	55.55556		2:SI=4.50E+7
014	icp15984 SDUP	QC221478	83479 Air	07-AUG-2003 11:36	1.0	55.55556	2	2:SI=4.50E+7
015	icp15984 SDUP	QC221478	83479 Air	07-AUG-2003 11:39	1.0	55.55556		2:SI=4.50E+7
016	icp15984 CCV		07-AUG-2003 11:42	1.0	1.0	1	7	2:SI=1716000
017	icp15984 CCV		07-AUG-2003 11:46	1.0	1.0	2	8	
018	icp15984 CCB		07-AUG-2003 11:51	1.0	1.0	4		
019	icp15984 SSPIKE	QC221479	83479 Air	07-AUG-2003 11:54	1.0	55.55556	1	2:SI=589000
020	icp15984 SAMPLE	166476-003	83479 Air	07-AUG-2003 11:57	1.0	55.55556	1	2:SI=578300
021	icp15984 SAMPLE	166476-003	83479 Air	07-AUG-2003 11:59	1.0	55.55556	1	2:SI=560800
022	icp15984 SAMPLE	166476-004	83479 Air	07-AUG-2003 12:02	1.0	55.55556	1	2:SI=577100
023	icp15985 SAMPLE	166476-004	83479 Air	07-AUG-2003 12:04	1.0	55.55556		2:SI=589000
024	icp15985 SAMPLE	166476-005	83479 Air	07-AUG-2003 12:07	1.0	55.55556	2	2:SI=587900
025	icp15985 SAMPLE	166476-005	83479 Air	07-AUG-2003 12:09	1.0	55.55556		2:SI=588300
026	icp15985 BLANK	QC221429	83470 WET Le	07-AUG-2003 12:15	1.0	5.0	6	2:NA=1756000
027	icp15985 BS	QC221430	83470 WET Le	07-AUG-2003 12:17	1.0	1.0	3	1:S=11.0800
028	icp15985 BSD	QC221431	83470 WET Le	07-AUG-2003 12:20	1.0	1.0	3	1:S=10.0700
029	icp15985 CCV		07-AUG-2003 12:22	1.0	1.0	1	7	
030	icp15985 CCV		07-AUG-2003 12:25	1.0	1.0	2	8	
031	icp15985 CCB		07-AUG-2003 12:28	1.0	1.0	4		
032	icp15985 MSS	166647-001	83470 WET Le	07-AUG-2003 12:35	1.0	5.0	5	2:NA=1859000

Stds used: 1=03WS1092 2=03WS1120 3=03WS1094 4=03WS1121 5=03WS1227 6=03WS1093 7=03WS1095 8=03WS1122 9=03SS286 10=03SS287

Analyst: Melvin Date: 8/1/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 13315951 Instrument: MET01 TJA ICP Begun: 07-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	icp15986 SDUP	QC221432	83470	WET	le	07-AUG-2003 12:37	1.0	5.0	1	1			2:NA=1.00E+7
034	icp15986 SSPIKE	QC221433	83470	WET	le	07-AUG-2003 12:41	1.0	5.0					2:NA=1871000
035	icp15986 MSS	166682-007	83482	Soil		07-AUG-2003 12:44	1.0	46.51163	6				3:FE=301000
036	icp15986 SER	QC221492	83482	Soil		07-AUG-2003 12:47	5.0	46.51163	2				1:S=50.3300
037	icp15986 MSS	166682-007	83482	Soil		07-AUG-2003 12:50	5.0	46.51163	4				1:S=32.3900
038	icp15986 SER	QC221492	83482	Soil		07-AUG-2003 12:54	25.0	46.51163	1	3			1:S=23.2500
039	icp15986 MS	QC221490	83482	Soil		07-AUG-2003 12:57	5.0	49.01961	1	2			1:S=20.9100
040	icp15986 MSD	QC221491	83482	Soil		07-AUG-2003 12:59	5.0	46.72897	1				1:S=19.0100
041	icp15986 MSS	166682-010	83482	Soil		07-AUG-2003 13:02	5.0	47.84689	4				1:S=16.3500
042	icp15986 CCV					07-AUG-2003 13:20	1.0	1.0	1		7		1:S=11.5500
043	icp15987 CCB					07-AUG-2003 13:24	1.0	1.0	3				1:S=10.5800
044	icp15987 MS	QC221493	83482	Soil		07-AUG-2003 13:27	5.0	46.51163	1				1:S=14.6300
045	icp15987 MSD	QC221494	83482	Soil		07-AUG-2003 13:30	5.0	45.24887	3	1			1:S=14.3500
046	icp15987 X	QC221624	83482	Soil		07-AUG-2003 13:34	5.0	1.0			9 10		1:S=16.8700
047	icp15987 SAMPLE	166668-011	83482	Soil		07-AUG-2003 13:43	5.0	45.24887					1:S=11.2500
048	icp15987 SAMPLE	166668-012	83482	Soil		07-AUG-2003 13:46	1.0	46.29630					1:S=10.9900
049	icp15987 SAMPLE	166682-001	83482	Soil		07-AUG-2003 13:49	1.0	46.94836					4:FE=318800
050	icp15987 SAMPLE	166682-016	83482	Soil		07-AUG-2003 13:52	1.0	45.87156					3:FE=277700
051	icp15987 SAMPLE	166682-017	83482	Soil		07-AUG-2003 13:54	1.0	43.66812					3:FE=306400
052	icp15987 SAMPLE	166682-018	83482	Soil		07-AUG-2003 13:57	1.0	49.75124					3:FE=259100
053	icp15988 SAMPLE	166682-019	83482	Soil		07-AUG-2003 14:00	1.0	42.91845					3:FE=334900
054	icp15988 PDS	QC221624	83482	Soil		07-AUG-2003 14:02	1.0	46.51163			9 10		3:FE=305100
055	icp15988 CCV					07-AUG-2003 14:10	1.0	1.0	1		7		
056	icp15988 CCB					07-AUG-2003 14:27	1.0	1.0	3				
057	icp15988 ICSAB					07-AUG-2003 14:41	1.0	1.0			6		5:CA=2710000

Stds used: 1=03WS1092 2=03WS1120 3=03WS1094 4=03WS1121 5=03WS1227 6=03WS1093 7=03WS1095 8=03WS1122 9=03SSS286 10=03SSS287

Analyst: new wu Date: 8/2/03

Method: 6010B Standard: blank

Run Time: 08/07/03 06:30:11

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.004	.000	-.003	.002	-.235	.004	.003
SDev	.000	.001	.002	.003	.001	.001	.001
%RSD	3.75	173.	70.7	172.	.221	25.0	26.5
#1	-.004	.001	-.002	-.000	-.235	.005	.004
#2	-.004	-.000	-.005	.003	-.235	.003	.003
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.016	.009	-.003	.001	.000	-.006
SDev	.000	.000	.001	.004	.003	.002	.002
%RSD	25.0	.787	5.83	141.	278.	651.	24.8
#1	-.002	-.017	.009	-.006	-.001	-.001	-.005
#2	-.001	-.016	.009	.000	.003	.002	-.008
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.002	-.001	-.003	.001	.027	.1769	.0001
SDev	.000	.001	.000	.000	.000	.0000	.0000
%RSD	13.6	113.	12.6	23.0	.346	.0000	.0000
#1	.002	-.002	-.003	.001	.027	.1769	.0001
#2	.003	-.000	-.004	.002	.027	.1769	.0001
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0023	.0005	.002	.333			
SDev	.0018	.0002	.001	.002			
%RSD	76.77	35.36	29.1	.595			
#1	-.0011	.0004	.003	.334			
#2	-.0036	.0007	.002	.331			

Method: 6010B Standard: cst hi
Run Time: 08/07/03 06:36:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.38	.507	73.5	8.33	2.78	.579
SDev	.08	.04	.002	.0	.00	.00	.001
%RSD	3.82	3.08	.326	.004	.023	.114	.098
#1	2.08	1.35	.508	73.5	8.33	2.78	.578
#2	2.19	1.41	.505	73.5	8.33	2.78	.579
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.68	1.52	1.76	1.93	3.25	4.49	.560
SDev	.00	.00	.01	.00	.00	.00	.001
%RSD	.008	.186	.548	.034	.087	.081	.143
#1	1.68	1.52	1.76	1.93	3.25	4.48	.559
#2	1.68	1.53	1.77	1.93	3.25	4.49	.561
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.695	.893	.335	2.34	.375	.4688	.7167
SDev	.005	.002	.004	.00	.000	.0019	.0005
%RSD	.692	.190	1.11	.030	.038	.4123	.0724
#1	.691	.892	.332	2.34	.376	.4675	.7163
#2	.698	.894	.337	2.34	.375	.4702	.7171
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2901	.4558	2.31	23.7			
SDev	.0016	.0001	.00	.0			
%RSD	.5526	.0103	.096	.005			
#1	.2889	.4559	2.31	23.7			
#2	.2912	.4558	2.31	23.7			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	465.981	1.75519	08/07/03 06:36:30
Sb206A	206.832	Multiple	Standards	713.180	-.213954	08/07/03 06:36:30
As1890	189.042	Multiple	Standards	981.533	3.27178	08/07/03 06:36:30
Ba4934	493.409	Multiple	Standards	13.6022	-.021310	08/07/03 06:36:30
Be3130	313.042	Multiple	Standards	11.2759	2.65021	08/07/03 06:36:30
Cd2265	226.502	Multiple	Standards	36.0091	-.142836	08/07/03 06:36:30
Cr2677	267.716	Multiple	Standards	347.897	-1.11327	08/07/03 06:36:30
Co2286	228.616	Multiple	Standards	297.950	.506515	08/07/03 06:36:30
Cu3247	324.754	Multiple	Standards	129.840	2.13984	08/07/03 06:36:30
Pb2203	220.351	Multiple	Standards	284.823	-2.53493	08/07/03 06:36:30
Pb220A	220.352	Multiple	Standards	256.979	.728108	08/07/03 06:36:30
Mo2020	202.030	Multiple	Standards	307.607	-.317861	08/07/03 06:36:30
Ni2316	231.604	Multiple	Standards	111.300	-.037100	08/07/03 06:36:30
Se1960	196.021	Multiple	Standards	883.262	5.71176	08/07/03 06:36:30
Se196A	196.022	Multiple	Standards	721.545	-1.75576	08/07/03 06:36:30
Ag3280	328.068	Multiple	Standards	111.890	.111890	08/07/03 06:36:30
Tl1908	190.864	Multiple	Standards	1487.33	5.00735	08/07/03 06:36:30
V_2924	292.402	Multiple	Standards	213.800	-.306447	08/07/03 06:36:30
Zn2138	213.856	Multiple	Standards	297.748	-8.11860	08/07/03 06:36:30
Al3082	308.215	Multiple	Standards	3469.99	-613.957	08/07/03 06:36:30
Ca3179	317.933	Multiple	Standards	2791.12	-.372149	08/07/03 06:36:30
Fe2714	271.441	Multiple	Standards	3566.42	8.32165	08/07/03 06:36:30
Mg2790	279.079	Multiple	Standards	4391.51	-2.34214	08/07/03 06:36:30
Mn2576	257.610	Multiple	Standards	43.2850	-.105327	08/07/03 06:36:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Ti3349	334.941	Multiple	Standards	42.7233	-14.2069	08/07/03 06:36:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766001

Run Name :
Filename : tr212875

Injected : 07-AUG-2003 06:46
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	987.9000	ug/L	-1	5	
Antimony	1000.000	1020.000	ug/L	2	5	
Arsenic	500.0000	491.0000	ug/L	-2	5	
Barium	1000.000	993.0000	ug/L	-1	5	
Beryllium	100.0000	98.10000	ug/L	-2	5	
Cadmium	100.0000	97.80000	ug/L	-2	5	
Calcium	2000.000	1958.000	ug/L	-2	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	491.0000	ug/L	-2	5	
Copper	200.0000	198.0000	ug/L	-1	5	
Iron	1000.000	975.9000	ug/L	-2	5	
Lead	500.0000	490.0000	ug/L	-2	5	
Magnesium	2000.000	1965.000	ug/L	-2	5	
Manganese	100.0000	98.30000	ug/L	-2	5	
Molybdenum	1000.000	990.0000	ug/L	-1	5	
Nickel	500.0000	492.0000	ug/L	-2	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	99.40000	ug/L	-1	5	
Thallium	500.0000	492.0000	ug/L	-2	5	
Titanium	1000.000	987.0000	ug/L	-1	5	
Vanadium	500.0000	492.0000	ug/L	-2	5	
Zinc	100.0000	98.60000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766002

Run Name :
Filename : tr212876

Injected : 07-AUG-2003 06:57
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	489.6000	ug/L	-2	10	
Antimony	500.0000	532.0000	ug/L	6	10	
Arsenic	250.0000	251.0000	ug/L	0	10	
Barium	500.0000	492.0000	ug/L	-2	10	
Beryllium	50.00000	50.60000	ug/L	1	10	
Cadmium	50.00000	48.60000	ug/L	-3	10	
Calcium	1000.000	1012.000	ug/L	1	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	247.0000	ug/L	-1	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	542.6000	ug/L	9	10	
Lead	250.0000	240.0000	ug/L	-4	10	
Magnesium	1000.000	1026.000	ug/L	3	10	
Manganese	50.00000	49.80000	ug/L	0	10	
Molybdenum	500.0000	493.0000	ug/L	-1	10	
Nickel	250.0000	250.0000	ug/L	0	10	
Selenium	250.0000	237.0000	ug/L	-5	10	
Silver	50.00000	49.50000	ug/L	-1	10	
Thallium	250.0000	246.0000	ug/L	-2	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	248.0000	ug/L	-1	10	
Zinc	50.00000	49.70000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766004

Run Name :
Filename : tr212878

Injected : 07-AUG-2003 07:13
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	97.48000	ug/L	-3		50	
Antimony	60.00000	77.60000	ug/L	29		50	
Arsenic	5.000000	6.960000	ug/L	39		50	
Barium	10.00000	9.980000	ug/L	0		50	
Beryllium	2.000000	1.970000	ug/L	-2		50	
Cadmium	5.000000	4.750000	ug/L	-5		50	
Chromium	10.00000	9.190000	ug/L	-8		50	
Cobalt	20.00000	19.30000	ug/L	-4		50	
Copper	10.00000	10.10000	ug/L	1		50	
Iron	100.0000	102.1000	ug/L	2		50	
Lead	3.000000	2.430000	ug/L	-19		50	
Manganese	10.00000	9.710000	ug/L	-3		50	
Molybdenum	20.00000	20.80000	ug/L	4		50	
Nickel	20.00000	19.90000	ug/L	-1		50	
Selenium	5.000000	6.750000	ug/L	35		50	
Silver	5.000000	4.680000	ug/L	-6		50	
Thallium	5.000000	6.740000	ug/L	35		50	
Vanadium	10.00000	9.850000	ug/L	-2		50	
Zinc	20.00000	20.80000	ug/L	4		50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766014

Run Name :
Filename : tr212888

Injected : 07-AUG-2003 08:09
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	499.6000	ug/L	0	10	
Antimony		500.0000	515.0000	ug/L	3	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	51.90000	ug/L	4	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	1044.000	ug/L	4	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	542.5000	ug/L	9	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1041.000	ug/L	4	10	
Manganese		50.00000	51.20000	ug/L	2	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	254.0000	ug/L	2	10	
Zinc		50.00000	51.60000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766026

Run Name :
Filename : tr212900

Injected : 07-AUG-2003 09:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	754.8000	ug/L	1		10	
Antimony		750.0000	772.0000	ug/L	3		10	
Arsenic		375.0000	378.0000	ug/L	1		10	
Barium		750.0000	742.0000	ug/L	-1		10	
Beryllium		75.00000	76.20000	ug/L	2		10	
Cadmium		75.00000	73.10000	ug/L	-3		10	
Calcium		1500.000	1522.000	ug/L	1		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	370.0000	ug/L	-1		10	
Copper		150.0000	153.0000	ug/L	2		10	
Iron		750.0000	797.8000	ug/L	6		10	
Lead		375.0000	361.0000	ug/L	-4		10	
Magnesium		1500.000	1531.000	ug/L	2		10	
Manganese		75.00000	74.90000	ug/L	0		10	
Molybdenum		750.0000	754.0000	ug/L	1		10	
Nickel		375.0000	376.0000	ug/L	0		10	
Selenium		375.0000	357.0000	ug/L	-5		10	
Silver		75.00000	75.70000	ug/L	1		10	
Thallium		375.0000	371.0000	ug/L	-1		10	
Titanium		750.0000	752.0000	ug/L	0		10	
Vanadium		375.0000	373.0000	ug/L	-1		10	
Zinc		75.00000	74.60000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766038

Run Name :
Filename : tr212913

Injected : 07-AUG-2003 10:27
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	706.0000	ug/L	-6		10	
Antimony		750.0000	781.0000	ug/L	4		10	
Arsenic		375.0000	365.0000	ug/L	-3		10	
Barium		750.0000	721.0000	ug/L	-4		10	
Beryllium		75.00000	72.80000	ug/L	-3		10	
Cadmium		75.00000	70.20000	ug/L	-6		10	
Calcium		1500.000	1417.000	ug/L	-6		10	
Chromium		150.0000	144.0000	ug/L	-4		10	
Cobalt		375.0000	354.0000	ug/L	-6		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	704.0000	ug/L	-6		10	
Lead		375.0000	355.0000	ug/L	-5		10	
Magnesium		1500.000	1442.000	ug/L	-4		10	
Manganese		75.00000	70.90000	ug/L	-5		10	
Molybdenum		750.0000	734.0000	ug/L	-2		10	
Nickel		375.0000	359.0000	ug/L	-4		10	
Selenium		375.0000	354.0000	ug/L	-6		10	
Silver		75.00000	73.30000	ug/L	-2		10	
Thallium		375.0000	348.0000	ug/L	-7		10	
Titanium		750.0000	728.0000	ug/L	-3		10	
Vanadium		375.0000	358.0000	ug/L	-5		10	
Zinc		75.00000	70.50000	ug/L	-6		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766049

Run Name :
Filename : tr212924

Injected : 07-AUG-2003 11:17
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	502.2000	ug/L	0	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	47.90000	ug/L	-4	10	
Calcium		1000.000	999.4000	ug/L	0	10	
Chromium		100.0000	99.90000	ug/L	0	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	521.2000	ug/L	4	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1003.000	ug/L	0	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	48.40000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766061

Run Name :
Filename : tr212936

Injected : 07-AUG-2003 12:04
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	754.5000	ug/L	1		10	
Antimony		750.0000	780.0000	ug/L	4		10	
Arsenic		375.0000	377.0000	ug/L	1		10	
Barium		750.0000	738.0000	ug/L	-2		10	
Beryllium		75.00000	76.50000	ug/L	2		10	
Cadmium		75.00000	71.80000	ug/L	-4		10	
Calcium		1500.000	1536.000	ug/L	2		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	369.0000	ug/L	-2		10	
Copper		150.0000	155.0000	ug/L	3		10	
Iron		750.0000	764.5000	ug/L	2		10	
Lead		375.0000	368.0000	ug/L	-2		10	
Magnesium		1500.000	1514.000	ug/L	1		10	
Manganese		75.00000	75.30000	ug/L	0		10	
Molybdenum		750.0000	753.0000	ug/L	0		10	
Nickel		375.0000	372.0000	ug/L	-1		10	
Selenium		375.0000	360.0000	ug/L	-4		10	
Silver		75.00000	77.20000	ug/L	3		10	
Thallium		375.0000	353.0000	ug/L	-6		10	
Titanium		750.0000	759.0000	ug/L	1		10	
Vanadium		375.0000	375.0000	ug/L	0		10	
Zinc		75.00000	74.00000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766073

Run Name :
Filename : tr212948

Injected : 07-AUG-2003 12:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	507.9000	ug/L	2	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	50.60000	ug/L	1	10	
Cadmium		50.00000	48.00000	ug/L	-4	10	
Calcium		1000.000	1028.000	ug/L	3	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	543.6000	ug/L	9	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	50.80000	ug/L	2	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	49.00000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766097

Run Name :
Filename : tr212972

Injected : 07-AUG-2003 14:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	701.5000	ug/L	-6	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	369.0000	ug/L	-2	10	
Barium		750.0000	726.0000	ug/L	-3	10	
Beryllium		75.00000	73.40000	ug/L	-2	10	
Cadmium		75.00000	70.20000	ug/L	-6	10	
Calcium		1500.000	1425.000	ug/L	-5	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	355.0000	ug/L	-5	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	697.9000	ug/L	-7	10	
Lead		375.0000	360.0000	ug/L	-4	10	
Magnesium		1500.000	1446.000	ug/L	-4	10	
Manganese		75.00000	70.90000	ug/L	-5	10	
Molybdenum		750.0000	747.0000	ug/L	0	10	
Nickel		375.0000	361.0000	ug/L	-4	10	
Selenium		375.0000	356.0000	ug/L	-5	10	
Silver		75.00000	74.30000	ug/L	-1	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	733.0000	ug/L	-2	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	70.90000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766109

Run Name :
Filename : tr212984

Injected : 07-AUG-2003 15:20
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	720.2000	ug/L	-4	10	
Antimony		750.0000	764.0000	ug/L	2	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	72.70000	ug/L	-3	10	
Cadmium		75.00000	69.50000	ug/L	-7	10	
Calcium		1500.000	1427.000	ug/L	-5	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	353.0000	ug/L	-6	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	724.2000	ug/L	-3	10	
Lead		375.0000	352.0000	ug/L	-6	10	
Magnesium		1500.000	1451.000	ug/L	-3	10	
Manganese		75.00000	71.10000	ug/L	-5	10	
Molybdenum		750.0000	733.0000	ug/L	-2	10	
Nickel		375.0000	359.0000	ug/L	-4	10	
Selenium		375.0000	352.0000	ug/L	-6	10	
Silver		75.00000	73.80000	ug/L	-2	10	
Thallium		375.0000	351.0000	ug/L	-6	10	
Titanium		750.0000	733.0000	ug/L	-2	10	
Vanadium		375.0000	359.0000	ug/L	-4	10	
Zinc		75.00000	70.60000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766119

Run Name :
Filename : tr212995

Injected : 07-AUG-2003 16:12
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	543.1000	ug/L	9		10	
Antimony		500.0000	497.0000	ug/L	-1		10	
Arsenic		250.0000	251.0000	ug/L	0		10	
Barium		500.0000	493.0000	ug/L	-1		10	
Beryllium		50.00000	51.10000	ug/L	2		10	
Cadmium		50.00000	48.30000	ug/L	-3		10	
Calcium		1000.000	1078.000	ug/L	8		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	542.9000	ug/L	9		10	
Lead		250.0000	247.0000	ug/L	-1		10	
Magnesium		1000.000	1071.000	ug/L	7		10	
Manganese		50.00000	50.40000	ug/L	1		10	
Molybdenum		500.0000	507.0000	ug/L	1		10	
Nickel		250.0000	251.0000	ug/L	0		10	
Selenium		250.0000	241.0000	ug/L	-4		10	
Silver		50.00000	49.30000	ug/L	-1		10	
Thallium		250.0000	240.0000	ug/L	-4		10	
Titanium		500.0000	513.0000	ug/L	3		10	
Vanadium		250.0000	251.0000	ug/L	0		10	
Zinc		50.00000	49.90000	ug/L	0		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766003
Filename: tr212877

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 07-AUG-2003 07:09

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[29.300]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1940]	10.00000	ug/L	<	RL
Beryllium	[0.1090]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[1.3980]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.0100]	10.00000	ug/L	<	RL
Copper	[0.0280]	10.00000	ug/L	<	RL
Iron	[1.1780]	100.0000	ug/L	<	RL
Lead	[0.6290]	3.000000	ug/L	<	RL
Magnesium	[5.5630]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[6.5500]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[1.4800]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[2.8800]	5.000000	ug/L	<	RL
Titanium	[1.0500]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766015
Filename: tr212889

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 08:14

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[10.400]	60.00000	ug/L	<	RL
Arsenic	[0.1290]	5.000000	ug/L	<	RL
Barium	[0.1500]	10.00000	ug/L	<	RL
Beryllium	[0.0850]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[3.7220]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.3580]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[1.9910]	100.0000	ug/L	<	RL
Lead	[1.1000]	3.000000	ug/L	<	RL
Magnesium	[5.4170]	500.0000	ug/L	<	RL
Manganese	[0.0690]	10.00000	ug/L	<	RL
Molybdenum	[3.2600]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[0.5300]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[1.7900]	5.000000	ug/L	<	RL
Titanium	[0.9740]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.1800]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766027
Filename: tr212901

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 09:11

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	[9.3300]	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.1450]	10.00000		ug/L	<	RL
Beryllium	[0.1240]	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[2.5130]	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	[0.0170]	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	[0.6300]	3.000000		ug/L	<	RL
Magnesium	[4.3910]	500.0000		ug/L	<	RL
Manganese	[0.1020]	10.00000		ug/L	<	RL
Molybdenum	[3.3200]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	[2.2900]	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	[0.5010]	5.000000		ug/L	<	RL
Titanium	[0.9500]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	[0.0330]	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766039
Filename: tr212914

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 10:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.5300]	100.0000	ug/L	<RL		
Antimony	[14.200]	60.00000	ug/L	<RL		
Arsenic	[1.5000]	5.000000	ug/L	<RL		
Barium	[0.1060]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.7889]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2590]	10.00000	ug/L	<RL		
Copper	[0.0380]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.6900]	3.000000	ug/L	<RL		
Magnesium	[1.9700]	500.0000	ug/L	<RL		
Manganese	[0.0190]	10.00000	ug/L	<RL		
Molybdenum	[3.3300]	20.00000	ug/L	<RL		
Nickel	[0.0910]	20.00000	ug/L	<RL		
Selenium	[1.0600]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.2920]	5.000000	ug/L	<RL		
Titanium	[0.3480]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766050
Filename: tr212925

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 11:23

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[4.7530]	100.0000	ug/L	<RL	
Antimony	[7.4900]	60.00000	ug/L	<RL	
Arsenic	[0.5760]	5.000000	ug/L	<RL	
Barium	[0.1010]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[2.8130]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2300]	10.00000	ug/L	<RL	
Copper	[0.3170]	10.00000	ug/L	<RL	
Iron	[1.4540]	100.0000	ug/L	<RL	
Lead	[1.2700]	3.000000	ug/L	<RL	
Magnesium	[3.6610]	500.0000	ug/L	<RL	
Manganese	[0.0830]	10.00000	ug/L	<RL	
Molybdenum	[2.4600]	20.00000	ug/L	<RL	
Nickel	[0.2200]	20.00000	ug/L	<RL	
Selenium	[2.1000]	5.000000	ug/L	<RL	
Silver	[0.0400]	5.000000	ug/L	<RL	
Thallium	[0.4360]	5.000000	ug/L	<RL	
Titanium	[1.2400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.2760]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766062
Filename: tr212937

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 12:08

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[6.6270]	100.0000	ug/L	<RL	
Antimony	[9.4500]	60.00000	ug/L	<RL	
Arsenic	[0.4460]	5.000000	ug/L	<RL	
Barium	[0.2850]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[5.4500]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2590]	10.00000	ug/L	<RL	
Copper	[0.5350]	10.00000	ug/L	<RL	
Iron	[4.8500]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[4.0840]	500.0000	ug/L	<RL	
Manganese	[0.2190]	10.00000	ug/L	<RL	
Molybdenum	[4.3500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.1500]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.3100]	5.000000	ug/L	<RL	
Titanium	[1.9200]	10.00000	ug/L	<RL	
Vanadium	[0.0420]	10.00000	ug/L	<RL	
Zinc	[0.7280]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766074
Filename: tr212949

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 13:00

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[4.4140]	100.0000	ug/L	<RL	
Antimony	[11.500]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1640]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0360]	5.000000	ug/L	<RL	
Calcium	[5.9770]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2500]	10.00000	ug/L	<RL	
Copper	[0.4290]	10.00000	ug/L	<RL	
Iron	[1.9010]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[5.2100]	500.0000	ug/L	<RL	
Manganese	[0.2530]	10.00000	ug/L	<RL	
Molybdenum	[4.3500]	20.00000	ug/L	<RL	
Nickel	[0.0870]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.7800]	10.00000	ug/L	<RL	
Vanadium	[0.0140]	10.00000	ug/L	<RL	
Zinc	[0.3630]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766098
Filename: tr212973

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 14:41

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[12.500]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.4040]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[2.5470]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2980]	10.00000	ug/L	<RL	
Copper	[0.2210]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.9700]	500.0000	ug/L	<RL	
Manganese	[0.0120]	10.00000	ug/L	<RL	
Molybdenum	[10.200]	20.00000	ug/L	<RL	
Nickel	[0.1260]	20.00000	ug/L	<RL	
Selenium	[3.6200]	5.000000	ug/L	<RL	
Silver	[0.0860]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.6900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.1620]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766110
Filename: tr212985

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 15:23

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[20.000]	100.0000	ug/L	<RL	
Antimony	[11.000]	60.00000	ug/L	<RL	
Arsenic	[1.6600]	5.000000	ug/L	<RL	
Barium	[1.9000]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1660]	5.000000	ug/L	<RL	
Calcium	[20.920]	500.0000	ug/L	<RL	
Chromium	[1.1400]	10.00000	ug/L	<RL	
Cobalt	[0.5280]	10.00000	ug/L	<RL	
Copper	[0.3740]	10.00000	ug/L	<RL	
Iron	[15.480]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[20.700]	500.0000	ug/L	<RL	
Manganese	[0.5160]	10.00000	ug/L	<RL	
Molybdenum	[8.4500]	20.00000	ug/L	<RL	
Nickel	[0.6180]	20.00000	ug/L	<RL	
Selenium	[3.5100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[4.1100]	5.000000	ug/L	<RL	
Titanium	[3.1100]	10.00000	ug/L	<RL	
Vanadium	[0.2940]	10.00000	ug/L	<RL	
Zinc	[0.9130]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766120
Filename: tr212996

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 16:16

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[21.010]	100.0000	ug/L	<RL	
Antimony	[13.600]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.7020]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.1550]	5.000000	ug/L	<RL	
Calcium	[24.870]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2700]	10.00000	ug/L	<RL	
Copper	[0.4320]	10.00000	ug/L	<RL	
Iron	[10.230]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[24.120]	500.0000	ug/L	<RL	
Manganese	[0.2430]	10.00000	ug/L	<RL	
Molybdenum	[6.5600]	20.00000	ug/L	<RL	
Nickel	[0.0810]	20.00000	ug/L	<RL	
Selenium	[2.3000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.9750]	5.000000	ug/L	<RL	
Titanium	[1.3400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.2580]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766005

Run Name :
Filename : tr212879

Injected : 07-AUG-2003 07:18
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	463900.0	ug/L	-7		
Antimony	500.0000	455.0000	ug/L	-9	20	
Arsenic	500.0000	475.0000	ug/L	-5	20	
Barium	500.0000	447.0000	ug/L	-11	20	
Beryllium	500.0000	420.0000	ug/L	-16	20	
Cadmium	1000.000	809.0000	ug/L	-19	20	
Calcium	500000.0	369600.0	ug/L	-26		
Chromium	500.0000	416.0000	ug/L	-17	20	
Cobalt	500.0000	410.0000	ug/L	-18	20	
Copper	500.0000	486.0000	ug/L	-3	20	
Iron	200000.0	163300.0	ug/L	-18		
Lead	1000.000	897.0000	ug/L	-10	20	
Magnesium	500000.0	452900.0	ug/L	-9		
Manganese	500.0000	425.0000	ug/L	-15	20	
Molybdenum	500.0000	425.0000	ug/L	-15	20	
Nickel	1000.000	891.0000	ug/L	-11	20	
Selenium	500.0000	438.0000	ug/L	-12	20	
Silver	1000.000	960.0000	ug/L	-4	20	
Thallium	500.0000	422.0000	ug/L	-16	20	
Titanium	20000.00	1780.000	ug/L	-91		
Vanadium	500.0000	432.0000	ug/L	-14	20	
Zinc	1000.000	884.0000	ug/L	-12	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766118

Run Name :
Filename : tr212994

Injected : 07-AUG-2003 16:06
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	473400.0	ug/L	-5			
Antimony	500.0000	485.0000	ug/L	-3	20		
Arsenic	500.0000	484.0000	ug/L	-3	20		
Barium	500.0000	455.0000	ug/L	-9	20		
Beryllium	500.0000	440.0000	ug/L	-12	20		
Cadmium	1000.000	833.0000	ug/L	-17	20		
Calcium	500000.0	385700.0	ug/L	-23			
Chromium	500.0000	431.0000	ug/L	-14	20		
Cobalt	500.0000	422.0000	ug/L	-16	20		
Copper	500.0000	496.0000	ug/L	-1	20		
Iron	200000.0	168300.0	ug/L	-16			
Lead	1000.000	933.0000	ug/L	-7	20		
Magnesium	500000.0	469500.0	ug/L	-6			
Manganese	500.0000	443.0000	ug/L	-11	20		
Molybdenum	500.0000	452.0000	ug/L	-10	20		
Nickel	1000.000	917.0000	ug/L	-8	20		
Selenium	500.0000	453.0000	ug/L	-9	20		
Silver	1000.000	853.0000	ug/L	-15	20		
Thallium	500.0000	429.0000	ug/L	-14	20		
Titanium	20000.00	1850.000	ug/L	-91			
Vanadium	500.0000	446.0000	ug/L	-11	20		
Zinc	1000.000	908.0000	ug/L	-9	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73315766 Instrument: MET07 TJA Trace ICP Begun: 07-AUG-2003

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212875 CS		07-AUG-2003 06:46	1.0	1.0		1	
002	tr212876 ICV		07-AUG-2003 06:57	1.0	1.0		2	
003	tr212877 ICB		07-AUG-2003 07:09	1.0	1.0			
004	tr212878 CRI		07-AUG-2003 07:13	1.0	1.0		3	
005	tr212879 ICSAB		07-AUG-2003 07:18	1.0	1.0		4	4:AL=463900
006	tr212880 BLANK	QC221504	83486 Soil	07-AUG-2003 07:28	50.0			
007	tr212881 BS	QC221505	83486 Soil	07-AUG-2003 07:33	50.0			
008	tr212882 BSD	QC221506	83486 Soil	07-AUG-2003 07:37	50.0			
009	tr212883 MSS	166758-007	83486 Soil	07-AUG-2003 07:43	45.66210	1		1:FE=155900
010	tr212884 SER	QC221509	83486 Soil	07-AUG-2003 07:48	45.66210	2		
011	tr212885 MS	QC221507	83486 Soil	07-AUG-2003 07:52	47.39336			2:FE=164800
012	tr212886 MSD	QC221508	83486 Soil	07-AUG-2003 07:56	44.44444	1		2:FE=154600
013	tr212887 SAMPLE	166758-008	83486 Soil	07-AUG-2003 08:01	42.55319			3:FE=192100
014	tr212888 CCV		07-AUG-2003 08:09	1.0	1.0		5	
015	tr212889 CCB		07-AUG-2003 08:14	1.0	1.0			
016	tr212890 SAMPLE	166758-009	83486 Soil	07-AUG-2003 08:19	44.84305			3:FE=186700
017	tr212891 SAMPLE	166758-010	83486 Soil	07-AUG-2003 08:23	37.03704			2:FE=210900
018	tr212892 SAMPLE	166758-012	83486 Soil	07-AUG-2003 08:27	46.29630			2:FE=189000
019	tr212893 SAMPLE	166758-013	83486 Soil	07-AUG-2003 08:31	41.49378			2:FE=190300
020	tr212894 SAMPLE	166758-014	83486 Soil	07-AUG-2003 08:35	42.91845			3:FE=173800
021	tr212895 SAMPLE	166758-015	83486 Soil	07-AUG-2003 08:39	47.16981			2:FE=171600
022	tr212896 SAMPLE	166758-016	83486 Soil	07-AUG-2003 08:43	49.26108			3:FE=198500
023	tr212897 SAMPLE	166759-002	83486 Soil	07-AUG-2003 08:47	38.91051			2:FE=258600
024	tr212898 SAMPLE	166759-003	83486 Soil	07-AUG-2003 08:51	45.24887			2:FE=217500
025	tr212899 SAMPLE	166759-004	83486 Soil	07-AUG-2003 08:56	45.04505			2:FE=218900
026	tr212900 CCV		07-AUG-2003 09:06	1.0	1.0		6	
027	tr212901 CCB		07-AUG-2003 09:11	1.0	1.0			
028	tr212902 SAMPLE	166759-005	83486 Soil	07-AUG-2003 09:17	46.72897			2:FE=226400
029	tr212903 SAMPLE	166759-006	83486 Soil	07-AUG-2003 09:21	49.26108			2:FE=217600
030	tr212904 SAMPLE	166759-008	83486 Soil	07-AUG-2003 09:25	44.24779			5:MG=284200
031	tr212905 SAMPLE	166759-009	83486 Soil	07-AUG-2003 09:29	39.52569			3:FE=298500
032	tr212906 SAMPLE	166759-010	83486 Soil	07-AUG-2003 09:33	45.66210			3:MG=293900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: *M. J. W. C.* Date: *8/7/07*

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73315766 Instrument: MET07 TJA Trace ICP Begun: 07-AUG-2003

#	Filename Type	Sample Num	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr212907 BLANK	QC221498	83485 Soil	07-AUG-2003 09:40 1.0	50.0			
034	tr212908 BS	QC221499	83485 Soil	07-AUG-2003 10:04 1.0	50.0			
035	tr212909 BSD	QC221500	83485 Soil	07-AUG-2003 10:07 1.0	50.0			
036	tr212910 MSS	166682-013	83485 Soil	07-AUG-2003 10:12 1.0	45.66210	2		2:FE=225300
037	tr212911 SER	QC221503	83485 Soil	07-AUG-2003 10:15 5.0	45.66210			
038	tr212913 CCV			07-AUG-2003 10:27 1.0	1.0		6	
039	tr212914 CCB			07-AUG-2003 10:34 1.0	1.0			
040	tr212915 MSS	166682-013	83485 Soil	07-AUG-2003 10:39 10.0	45.66210			
041	tr212916 SER	QC221503	83485 Soil	07-AUG-2003 10:42 50.0	45.66210			
042	tr212917 MS	QC221501	83485 Soil	07-AUG-2003 10:46 1.0	45.87156			
043	tr212918 MSD	QC221502	83485 Soil	07-AUG-2003 10:50 1.0	40.0			2:FE=222500
044	tr212919 SAMPLE	166668-026	83485 Soil	07-AUG-2003 10:53 1.0	45.24887			2:FE=267700
045	tr212920 SAMPLE	166668-027	83485 Soil	07-AUG-2003 10:57 1.0	39.06250			1:FE=173300
046	tr212921 SAMPLE	166668-029	83485 Soil	07-AUG-2003 11:00 1.0	47.84689			2:FE=181300
047	tr212922 SAMPLE	166668-030	83485 Soil	07-AUG-2003 11:04 1.0	42.91845			1:FE=175200
048	tr212923 SAMPLE	166668-031	83485 Soil	07-AUG-2003 11:07 1.0	40.16064			1:FE=170200
049	tr212924 CCV			07-AUG-2003 11:17 1.0	1.0		5	2:FE=191300
050	tr212925 CCB			07-AUG-2003 11:23 1.0	1.0			
051	tr212926 SAMPLE	166682-004	83485 Soil	07-AUG-2003 11:27 1.0	45.45455	3		3:FE=208200
052	tr212927 SAMPLE	166682-005	83485 Soil	07-AUG-2003 11:31 1.0	40.98361	3		3:FE=268000
053	tr212928 SAMPLE	166733-001	83485 Soil	07-AUG-2003 11:34 1.0	47.39336			
054	tr212929 SAMPLE	166733-002	83485 Soil	07-AUG-2003 11:38 1.0	34.72222			
055	tr212930 SAMPLE	166733-003	83485 Soil	07-AUG-2003 11:41 1.0	38.02281	1		2:AL=109500
056	tr212931 SAMPLE	166758-002	83485 Soil	07-AUG-2003 11:44 1.0	47.39336			3:FE=246500
057	tr212932 SAMPLE	166733-003	83485 Soil	07-AUG-2003 11:48 10.0	38.02281			3:FE=192500
058	tr212933 SAMPLE	166758-003	83485 Soil	07-AUG-2003 11:52 1.0	42.73504			2:FE=169400
059	tr212934 SAMPLE	166758-004	83485 Soil	07-AUG-2003 11:55 1.0	47.84689			3:FE=208400
060	tr212935 SAMPLE	166758-005	83485 Soil	07-AUG-2003 11:59 1.0	47.39336			2:FE=174200
061	tr212936 CCV			07-AUG-2003 12:04 1.0	1.0		6	
062	tr212937 CCB			07-AUG-2003 12:08 1.0	1.0			
063	tr212938 PDS	QC221556	83485 Soil	07-AUG-2003 12:15 1.0	45.66210		7 8	2:FE=234700
064	tr212939 SAMPLE	166682-004	83485 Soil	07-AUG-2003 12:19 1.0	45.45455			

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: AW Date: 8/9/03
Page 2 of 4

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73315766

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
065	tr212940	SAMPLE	166682-005	83485	Soil	07-AUG-2003	12:24	10.0	40.98361					
066	tr212941	SAMPLE	166758-006	83485	Soil	07-AUG-2003	12:28	1.0	46.29630					2:FE=144000
067	tr212942	SAMPLE	166668-001	83478	Soil	07-AUG-2003	12:34	1.0	50.0					1:FE=133600
068	tr212943	SAMPLE	166668-002	83478	Soil	07-AUG-2003	12:37	1.0	43.10345					1:FE=138700
069	tr212944	SAMPLE	166668-003	83478	Soil	07-AUG-2003	12:41	1.0	47.84689					1:FE=178600
070	tr212945	SAMPLE	166668-004	83478	Soil	07-AUG-2003	12:44	1.0	44.24779					1:FE=143500
071	tr212946	SAMPLE	166668-005	83478	Soil	07-AUG-2003	12:48	1.0	43.47826					1:FE=150300
072	tr212947	SAMPLE	166668-006	83478	Soil	07-AUG-2003	12:51	1.0	49.26108					1:FE=152000
073	tr212948	CCV				07-AUG-2003	12:56	1.0	1.0				5	
074	tr212949	CCB				07-AUG-2003	13:00	1.0	1.0					
075	tr212950	BLANK	QC221464	83478	Soil	07-AUG-2003	13:04	1.0	50.0					
076	tr212951	BS	QC221465	83478	Soil	07-AUG-2003	13:07	1.0	50.0					
077	tr212952	BSD	QC221466	83478	Soil	07-AUG-2003	13:11	1.0	50.0					
078	tr212953	MSS	166668-032	83478	Soil	07-AUG-2003	13:16	1.0	44.05286	1				1:FE=161900
079	tr212954	SER	QC221469	83478	Soil	07-AUG-2003	13:24	5.0	44.05286	1				
080	tr212955	MS	QC221467	83478	Soil	07-AUG-2003	13:28	1.0	38.91051		1			2:FE=187800
081	tr212956	MSD	QC221468	83478	Soil	07-AUG-2003	13:31	1.0	43.10345					2:FE=174100
082	tr212957	SER	QC221469	83478	Soil	07-AUG-2003	13:35	5.0	44.05286					
083	tr212958	PDS	QC221557	83478	Soil	07-AUG-2003	13:39	1.0	44.05286				7 8	2:FE=165800
084	tr212959	SAMPLE	166668-008	83478	Soil	07-AUG-2003	13:42	1.0	42.91845					1:FE=147800
085	tr212960	CCV				07-AUG-2003	13:49	1.0	1.0				5	
086	tr212961	CCB				07-AUG-2003	13:53	1.0	1.0					
087	tr212962	BLANK	QC221570	83504	Water	07-AUG-2003	13:58	1.0	1.0					
088	tr212963	BS	QC221571	83504	Water	07-AUG-2003	14:03	1.0	1.0					
089	tr212964	BSD	QC221572	83504	Water	07-AUG-2003	14:06	1.0	1.0					
090	tr212965	MSS	166758-001	83504	Water	07-AUG-2003	14:10	1.0	1.0					
091	tr212966	MS	QC221573	83504	Water	07-AUG-2003	14:13	1.0	1.0					
092	tr212967	MSD	QC221574	83504	Water	07-AUG-2003	14:17	1.0	1.0					
093	tr212968	SAMPLE	166732-001	83504	Water	07-AUG-2003	14:20	1.0	1.0					
094	tr212969	SAMPLE	166758-011	83504	Water	07-AUG-2003	14:24	1.0	1.0					
095	tr212970	SAMPLE	166759-001	83504	Water	07-AUG-2003	14:27	1.0	1.0					
096	tr212971	SAMPLE	166759-007	83504	Water	07-AUG-2003	14:31	1.0	1.0					

stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: mev Date: 8/13

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73315766 Instrument: MET07 TJA Trace ICP Begun: 07-AUG-2003

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
097	tr212972 CCV		07-AUG-2003 14:37	1.0	1.0		6	
098	tr212973 CCB		07-AUG-2003 14:41	1.0	1.0			
099	tr212974 SAMPLE	166668-009	83478 Soil	07-AUG-2003 14:44	1.0	44.05286		1:FE=149400
100	tr212975 SAMPLE	166668-014	83478 Soil	07-AUG-2003 14:48	1.0	50.0		1:FE=124000
101	tr212976 SAMPLE	166668-015	83478 Soil	07-AUG-2003 14:51	1.0	42.55319		1:FE=157300
102	tr212977 SAMPLE	166668-016	83478 Soil	07-AUG-2003 14:55	1.0	46.94836		1:FE=139300
103	tr212978 SAMPLE	166668-018	83478 Soil	07-AUG-2003 14:58	1.0	48.78049		1:FE=125500
104	tr212979 SAMPLE	166668-019	83478 Soil	07-AUG-2003 15:02	1.0	44.64286		1:FE=160000
105	tr212980 SAMPLE	166668-020	83478 Soil	07-AUG-2003 15:05	1.0	46.29630		1:FE=149600
106	tr212981 SAMPLE	166668-021	83478 Soil	07-AUG-2003 15:09	1.0	48.30918		1:FE=128000
107	tr212982 SAMPLE	166668-022	83478 Soil	07-AUG-2003 15:12	1.0	42.01681		1:FE=131300
108	tr212983 BSD	QC221489	83482 Soil	07-AUG-2003 15:16	1.0	50.0		
109	tr212984 CCV		07-AUG-2003 15:20	1.0	1.0		6	
110	tr212985 CCB		07-AUG-2003 15:23	1.0	1.0			
111	tr212986 SAMPLE	166668-023	83478 Soil	07-AUG-2003 15:30	1.0	43.66812		1:FE=124800
112	tr212987 SAMPLE	166668-024	83478 Soil	07-AUG-2003 15:34	1.0	49.75124		1:FE=134400
113	tr212988 SAMPLE	166668-025	83478 Soil	07-AUG-2003 15:37	1.0	46.51163		1:FE=139400
114	tr212989 BLANK	QC221510	83487 Soil	07-AUG-2003 15:41	1.0	50.0	1	
115	tr212991 BS	QC221511	83487 Soil	07-AUG-2003 15:53	1.0	50.0		
116	tr212992 BSD	QC221512	83487 Soil	07-AUG-2003 15:59	1.0	50.0		
117	tr212993 MSS	166669-001	83487 Soil	07-AUG-2003 16:03	1.0	42.37288	3	3:FE=323700
118	tr212994 ICSAB			07-AUG-2003 16:06	1.0	1.0	4	4:AL=473400
119	tr212995 CCV			07-AUG-2003 16:12	1.0	1.0	5	
120	tr212996 CCB		07-AUG-2003 16:16	1.0	1.0			

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: meow Date: 8/13

Method: 6010B Standard: blank
Run Time: 08/08/03 06:02:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.001	-.003	.001	-.026	.000	.002
SDev	.000	.000	.001	.000	.001	.000	.000
%RSD	29.5	58.2	27.1	8.32	4.88	38.6	4.42
#1	-.001	-.000	-.004	.001	-.027	.000	.002
#2	-.002	-.001	-.003	.001	-.025	.000	.002
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	-.026	.013	-.000	.002	-.002	-.007
SDev	.000	.000	.004	.005	.001	.001	.000
%RSD	9.43	1.32	31.1	2040.	23.6	66.7	4.65
#1	-.001	-.025	.016	.003	.003	-.001	-.007
#2	-.001	-.026	.010	-.004	.002	-.003	-.007
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.001	.001	.027	.1801	.0001
SDev	.001	.001	.000	.000	.000	.0003	.0001
%RSD	49.4	36.9	6.73	20.2	.000	.1571	47.14
#1	.002	-.001	-.001	.001	.027	.1799	.0001
#2	.004	-.002	-.001	.001	.027	.1803	.0001
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0024	.0014	.002	.328			
SDev	.0002	.0002	.000	.001			
%RSD	9.959	17.25	10.9	.417			
#1	-.0025	.0012	.002	.327			
#2	-.0022	.0015	.002	.329			

Method: 6010B Standard: cst hi
Run Time: 08/08/03 06:08:36

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.00	1.32	.488	70.1	7.48	2.72	.518
SDev	.09	.04	.002	.0	.01	.01	.000
%RSD	4.41	3.06	.357	.016	.134	.293	.064
#1	1.94	1.30	.487	70.1	7.49	2.72	.517
#2	2.07	1.35	.490	70.1	7.47	2.71	.518
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.55	1.34	1.66	1.84	3.09	4.29	.527
SDev	.00	.00	.00	.00	.01	.00	.005
%RSD	.015	.059	.187	.141	.275	.020	.966
#1	1.55	1.34	1.66	1.85	3.08	4.29	.523
#2	1.55	1.34	1.66	1.84	3.09	4.29	.531
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.686	.778	.324	2.09	.363	.4213	.5850
SDev	.003	.002	.004	.00	.000	.0001	.0006
%RSD	.433	.303	1.28	.108	.052	.0112	.0967
#1	.684	.780	.327	2.09	.363	.4213	.5854
#2	.688	.776	.321	2.09	.363	.4213	.5846
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2545	.4081	1.96	21.4			
SDev	.0002	.0005	.00	.0			
%RSD	.0926	.1155	.101	.023			
#1	.2543	.4084	1.96	21.4			
#2	.2547	.4077	1.96	21.4			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	496.372	.794196	08/08/03 06:08:36
Sb206A	206.832	Multiple	Standards	740.538	.419638	08/08/03 06:08:36
As1890	189.042	Multiple	Standards	1018.13	3.19016	08/08/03 06:08:36
Ba4934	493.409	Multiple	Standards	14.2571	-.016158	08/08/03 06:08:36
Be3130	313.042	Multiple	Standards	12.8724	.335969	08/08/03 06:08:36
Cd2265	226.502	Multiple	Standards	36.7457	-.013473	08/08/03 06:08:36
Cr2677	267.716	Multiple	Standards	388.328	-.828432	08/08/03 06:08:36
Co2286	228.616	Multiple	Standards	322.089	.322089	08/08/03 06:08:36
Cu3247	324.754	Multiple	Standards	146.316	3.73919	08/08/03 06:08:36
Pb2203	220.351	Multiple	Standards	303.716	-3.99893	08/08/03 06:08:36
Pb220A	220.352	Multiple	Standards	268.822	.062725	08/08/03 06:08:36
Mo2020	202.030	Multiple	Standards	324.072	-.777773	08/08/03 06:08:36
Ni2316	231.604	Multiple	Standards	116.434	.205700	08/08/03 06:08:36
Se1960	196.021	Multiple	Standards	936.616	6.64997	08/08/03 06:08:36
Se196A	196.022	Multiple	Standards	731.583	-2.02405	08/08/03 06:08:36
Ag3280	328.068	Multiple	Standards	128.282	.196699	08/08/03 06:08:36
Tl1908	190.864	Multiple	Standards	1543.95	2.16153	08/08/03 06:08:36
V_2924	292.402	Multiple	Standards	238.944	-.167261	08/08/03 06:08:36
Zn2138	213.856	Multiple	Standards	308.775	-8.43985	08/08/03 06:08:36
Al3082	308.215	Multiple	Standards	4198.80	-756.064	08/08/03 06:08:36
Ca3179	317.933	Multiple	Standards	3419.43	-.341943	08/08/03 06:08:36
Fe2714	271.441	Multiple	Standards	4059.78	9.60815	08/08/03 06:08:36
Mg2790	279.079	Multiple	Standards	4916.29	-6.71893	08/08/03 06:08:36
Mn2576	257.610	Multiple	Standards	50.9935	-.110486	08/08/03 06:08:36
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Ti3349	334.941	Multiple	Standards	47.4928	-15.5729	08/08/03 06:08:36

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180001

Run Name :
Filename : tr213066

Injected : 08-AUG-2003 06:20
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	999.9000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	499.0000	ug/L	0	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	99.30000	ug/L	-1	5	
Cadmium	100.0000	99.40000	ug/L	-1	5	
Calcium	2000.000	1989.000	ug/L	-1	5	
Chromium	200.0000	199.0000	ug/L	-1	5	
Cobalt	500.0000	498.0000	ug/L	0	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	997.9000	ug/L	0	5	
Lead	500.0000	497.0000	ug/L	-1	5	
Magnesium	2000.000	1992.000	ug/L	0	5	
Manganese	100.0000	99.60000	ug/L	0	5	
Molybdenum	1000.000	999.0000	ug/L	0	5	
Nickel	500.0000	498.0000	ug/L	0	5	
Selenium	500.0000	500.0000	ug/L	0	5	
Silver	100.0000	99.10000	ug/L	-1	5	
Thallium	500.0000	491.0000	ug/L	-2	5	
Titanium	1000.000	999.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	99.10000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180002

Run Name :
Filename : tr213067

Injected : 08-AUG-2003 06:29
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	490.3000	ug/L	-2	10	
Antimony	500.0000	546.0000	ug/L	9	10	
Arsenic	250.0000	255.0000	ug/L	2	10	
Barium	500.0000	494.0000	ug/L	-1	10	
Beryllium	50.00000	51.50000	ug/L	3	10	
Cadmium	50.00000	49.70000	ug/L	-1	10	
Calcium	1000.000	1027.000	ug/L	3	10	
Chromium	100.0000	103.0000	ug/L	3	10	
Cobalt	250.0000	251.0000	ug/L	0	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	513.3000	ug/L	3	10	
Lead	250.0000	252.0000	ug/L	1	10	
Magnesium	1000.000	1025.000	ug/L	3	10	
Manganese	50.00000	50.60000	ug/L	1	10	
Molybdenum	500.0000	513.0000	ug/L	3	10	
Nickel	250.0000	255.0000	ug/L	2	10	
Selenium	250.0000	242.0000	ug/L	-3	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	243.0000	ug/L	-3	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	253.0000	ug/L	1	10	
Zinc	50.00000	50.20000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180004

Run Name :
Filename : tr213069

Injected : 08-AUG-2003 06:44
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	94.07000	ug/L	-6	50	
Antimony	60.00000	87.90000	ug/L	47	50	
Arsenic	5.000000	3.960000	ug/L	-21	50	
Barium	10.00000	11.00000	ug/L	10	50	
Beryllium	2.000000	1.870000	ug/L	-7	50	
Cadmium	5.000000	4.960000	ug/L	-1	50	
Chromium	10.00000	9.610000	ug/L	-4	50	
Cobalt	20.00000	18.90000	ug/L	-6	50	
Copper	10.00000	9.980000	ug/L	0	50	
Iron	100.0000	105.8000	ug/L	6	50	
Lead	3.000000	2.030000	ug/L	-32	50	
Manganese	10.00000	9.830000	ug/L	-2	50	
Molybdenum	20.00000	20.20000	ug/L	1	50	
Nickel	20.00000	21.70000	ug/L	9	50	
Selenium	5.000000	6.590000	ug/L	32	50	
Silver	5.000000	4.550000	ug/L	-9	50	
Thallium	5.000000	3.330000	ug/L	-33	50	
Vanadium	10.00000	10.00000	ug/L	0	50	
Zinc	20.00000	19.90000	ug/L	-1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180014

Run Name :
Filename : tr213079

Injected : 08-AUG-2003 08:16
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	520.2000	ug/L	4		10	
Antimony		500.0000	510.0000	ug/L	2		10	
Arsenic		250.0000	257.0000	ug/L	3		10	
Barium		500.0000	501.0000	ug/L	0		10	
Beryllium		50.00000	50.30000	ug/L	1		10	
Cadmium		50.00000	47.80000	ug/L	-4		10	
Calcium		1000.000	1100.000	ug/L	10		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	244.0000	ug/L	-2		10	
Copper		100.0000	105.0000	ug/L	5		10	
Iron		500.0000	544.6000	ug/L	9		10	
Lead		250.0000	255.0000	ug/L	2		10	
Magnesium		1000.000	1068.000	ug/L	7		10	
Manganese		50.00000	53.60000	ug/L	7		10	
Molybdenum		500.0000	517.0000	ug/L	3		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	243.0000	ug/L	-3		10	
Silver		50.00000	52.50000	ug/L	5		10	
Thallium		250.0000	246.0000	ug/L	-2		10	
Titanium		500.0000	523.0000	ug/L	5		10	
Vanadium		250.0000	257.0000	ug/L	3		10	
Zinc		50.00000	50.40000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180026

Run Name :
Filename : tr213091

Injected : 08-AUG-2003 09:31
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	718.8000	ug/L	-4	10	
Antimony		750.0000	682.0000	ug/L	-9	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	71.60000	ug/L	-5	10	
Calcium		1500.000	1470.000	ug/L	-2	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	721.9000	ug/L	-4	10	
Lead		375.0000	350.0000	ug/L	-7	10	
Magnesium		1500.000	1484.000	ug/L	-1	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	364.0000	ug/L	-3	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	365.0000	ug/L	-3	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180038

Run Name :
Filename : tr213103

Injected : 08-AUG-2003 10:32
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	752.9000	ug/L	0	10	
Antimony		750.0000	659.0000	ug/L	-12	10	1 ***
Arsenic		375.0000	380.0000	ug/L	1	10	
Barium		750.0000	732.0000	ug/L	-2	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	73.60000	ug/L	-2	10	
Calcium		1500.000	1506.000	ug/L	0	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	760.1000	ug/L	1	10	
Lead		375.0000	371.0000	ug/L	-1	10	
Magnesium		1500.000	1510.000	ug/L	1	10	
Manganese		75.00000	74.00000	ug/L	-1	10	
Molybdenum		750.0000	737.0000	ug/L	-2	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

astid : MET07
eqnum : 73317180050

Run Name :
Filename : tr213115

Injected : 08-AUG-2003 11:28
Caltype :

standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	480.3000	ug/L	-4	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	47.60000	ug/L	-5	10	
Calcium		1000.000	973.4000	ug/L	-3	10	
Chromium		100.0000	98.90000	ug/L	-1	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	497.5000	ug/L	-1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	984.2000	ug/L	-2	10	
Manganese		50.00000	48.40000	ug/L	-3	10	
Molybdenum		500.0000	493.0000	ug/L	-1	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	498.0000	ug/L	0	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	48.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180061

Run Name :
Filename : tr213126

Injected : 08-AUG-2003 12:10
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	754.5000	ug/L	1	10	
Antimony		750.0000	651.0000	ug/L	-13	10	1 ***
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	729.0000	ug/L	-3	10	
Beryllium		75.00000	73.90000	ug/L	-1	10	
Cadmium		75.00000	71.40000	ug/L	-5	10	
Calcium		1500.000	1463.000	ug/L	-2	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	359.0000	ug/L	-4	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	787.4000	ug/L	5	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1544.000	ug/L	3	10	
Manganese		75.00000	72.90000	ug/L	-3	10	
Molybdenum		750.0000	731.0000	ug/L	-3	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	73.50000	ug/L	-2	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	738.0000	ug/L	-2	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	72.80000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180068

Run Name :
Filename : tr213133

Injected : 08-AUG-2003 12:41
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	536.2000	ug/L	7		10	
Antimony		500.0000	481.0000	ug/L	-4		10	
Arsenic		250.0000	250.0000	ug/L	0		10	
Barium		500.0000	490.0000	ug/L	-2		10	
Beryllium		50.00000	50.20000	ug/L	0		10	
Cadmium		50.00000	48.70000	ug/L	-3		10	
Calcium		1000.000	1013.000	ug/L	1		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	246.0000	ug/L	-2		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	544.8000	ug/L	9		10	
Lead		250.0000	256.0000	ug/L	2		10	
Magnesium		1000.000	1017.000	ug/L	2		10	
Manganese		50.00000	50.30000	ug/L	1		10	
Molybdenum		500.0000	507.0000	ug/L	1		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	242.0000	ug/L	-3		10	
Silver		50.00000	50.50000	ug/L	1		10	
Thallium		250.0000	239.0000	ug/L	-4		10	
Titanium		500.0000	508.0000	ug/L	2		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	50.70000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd : MET07
Seqnum : 73317180081

Run Name :
Filename : tr213146

Injected : 08-AUG-2003 13:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.0000	ug/L	3	10	
Antimony		750.0000	690.0000	ug/L	-8	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	730.0000	ug/L	-3	10	
Beryllium		75.00000	75.50000	ug/L	1	10	
Cadmium		75.00000	72.40000	ug/L	-3	10	
Calcium		1500.000	1518.000	ug/L	1	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	746.4000	ug/L	0	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1520.000	ug/L	1	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	751.0000	ug/L	0	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	75.40000	ug/L	1	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180091

Run Name :
Filename : tr213156

Injected : 08-AUG-2003 14:54
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.9000	ug/L	-1	10	
Antimony		750.0000	699.0000	ug/L	-7	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	724.0000	ug/L	-3	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	73.10000	ug/L	-3	10	
Calcium		1500.000	1481.000	ug/L	-1	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	732.6000	ug/L	-2	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1498.000	ug/L	0	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	764.0000	ug/L	2	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	75.00000	ug/L	0	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	745.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	73.50000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180003
Filename: tr213068

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 08-AUG-2003 06:40

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[51.200]	60.00000	ug/L	<	RL
Arsenic	[0.7780]	5.000000	ug/L	<	RL
Barium	[0.1730]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.0620]	5.000000	ug/L	<	RL
Calcium	[1.9390]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[0.0410]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[2.2940]	500.0000	ug/L	<	RL
Manganese	[0.0490]	10.00000	ug/L	<	RL
Molybdenum	[4.2800]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[0.5740]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.3600]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.2080]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180015
Filename: tr213080

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 08:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.900]	60.00000	ug/L	<RL	
Arsenic	[0.4340]	5.000000	ug/L	<RL	
Barium	[0.0710]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.6500]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.4420]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.4580]	500.0000	ug/L	<RL	
Manganese	[0.0480]	10.00000	ug/L	<RL	
Molybdenum	[2.3500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[3.8900]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.2700]	5.000000	ug/L	<RL	
Titanium	[0.6190]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.1040]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180027
Filename: tr213092

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 09:40

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[1.8350]	100.0000	ug/L	<RL		
Antimony	[14.100]	60.00000	ug/L	<RL		
Arsenic	[1.3800]	5.000000	ug/L	<RL		
Barium	[0.1460]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0220]	5.000000	ug/L	<RL		
Calcium	[2.8240]	500.0000	ug/L	<RL		
Chromium	[0.3910]	10.00000	ug/L	<RL		
Cobalt	[0.0370]	10.00000	ug/L	<RL		
Copper	[0.4220]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.0270]	10.00000	ug/L	<RL		
Molybdenum	[1.8800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.3100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.8850]	5.000000	ug/L	<RL		
Titanium	[3.3800]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.6400]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180039
Filename: tr213104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 10:39

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[9.2950]	100.0000		ug/L	<RL	
Antimony	[3.6900]	60.00000		ug/L	<RL	
Arsenic	ND	5.000000		ug/L	<RL	
Barium	[0.1500]	10.00000		ug/L	<RL	
Beryllium	ND	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	[5.4730]	500.0000		ug/L	<RL	
Chromium	[0.3170]	10.00000		ug/L	<RL	
Cobalt	[0.0650]	10.00000		ug/L	<RL	
Copper	[0.2980]	10.00000		ug/L	<RL	
Iron	[2.0860]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	ND	500.0000		ug/L	<RL	
Manganese	[0.0540]	10.00000		ug/L	<RL	
Molybdenum	[1.1900]	20.00000		ug/L	<RL	
Nickel	[0.3190]	20.00000		ug/L	<RL	
Selenium	[0.9560]	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	[0.0990]	5.000000		ug/L	<RL	
Titanium	[3.5200]	10.00000		ug/L	<RL	
Vanadium	ND	10.00000		ug/L	<RL	
Zinc	[1.3300]	20.00000		ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180051
Filename: tr213116

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 11:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.6903]	100.0000	ug/L	<RL		
Antimony	[7.0300]	60.00000	ug/L	<RL		
Arsenic	[0.7570]	5.000000	ug/L	<RL		
Barium	[0.1550]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[4.6800]	500.0000	ug/L	<RL		
Chromium	[0.1270]	10.00000	ug/L	<RL		
Cobalt	[0.0560]	10.00000	ug/L	<RL		
Copper	[0.5240]	10.00000	ug/L	<RL		
Iron	[5.1750]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.3080]	500.0000	ug/L	<RL		
Manganese	[0.0910]	10.00000	ug/L	<RL		
Molybdenum	[1.5900]	20.00000	ug/L	<RL		
Nickel	[0.0900]	20.00000	ug/L	<RL		
Selenium	[0.8570]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.6600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.9860]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180062
Filename: tr213127

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 12:16

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[15.140]	100.0000	ug/L	<RL	
Antimony	[8.9400]	60.00000	ug/L	<RL	
Arsenic	[0.1300]	5.000000	ug/L	<RL	
Barium	[0.2270]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[6.4460]	500.0000	ug/L	<RL	
Chromium	[0.5810]	10.00000	ug/L	<RL	
Cobalt	[0.3740]	10.00000	ug/L	<RL	
Copper	[0.3910]	10.00000	ug/L	<RL	
Iron	[11.430]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[14.750]	500.0000	ug/L	<RL	
Manganese	[0.2490]	10.00000	ug/L	<RL	
Molybdenum	[3.1000]	20.00000	ug/L	<RL	
Nickel	[0.2870]	20.00000	ug/L	<RL	
Selenium	[0.4120]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.5400]	5.000000	ug/L	<RL	
Titanium	[4.4200]	10.00000	ug/L	<RL	
Vanadium	[0.0650]	10.00000	ug/L	<RL	
Zinc	[1.7600]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180069
Filename: tr213134

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 12:46

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[12.760]	100.0000	ug/L	<RL	
Antimony	[7.7700]	60.00000	ug/L	<RL	
Arsenic	[0.6920]	5.000000	ug/L	<RL	
Barium	[0.0190]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[6.5370]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[10.400]	100.0000	ug/L	<RL	
Lead	[1.4700]	3.000000	ug/L	<RL	
Magnesium	[4.6860]	500.0000	ug/L	<RL	
Manganese	[0.2110]	10.00000	ug/L	<RL	
Molybdenum	[0.7980]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.0100]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[1.4300]	5.000000	ug/L	<RL	
Titanium	[3.6700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.5700]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180082
Filename: tr213147

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 13:46

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[18.470]	100.0000	ug/L	<RL		
Antimony	[8.0300]	60.00000	ug/L	<RL		
Arsenic	[0.8550]	5.000000	ug/L	<RL		
Barium	[0.2350]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0850]	5.000000	ug/L	<RL		
Calcium	[10.240]	500.0000	ug/L	<RL		
Chromium	[0.5600]	10.00000	ug/L	<RL		
Cobalt	[0.2710]	10.00000	ug/L	<RL		
Copper	[0.6070]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.1480]	3.000000	ug/L	<RL		
Magnesium	[5.9250]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[4.5000]	20.00000	ug/L	<RL		
Nickel	[0.2040]	20.00000	ug/L	<RL		
Selenium	[0.1020]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[3.0000]	5.000000	ug/L	<RL		
Titanium	[2.7800]	10.00000	ug/L	<RL		
Vanadium	[0.0410]	10.00000	ug/L	<RL		
Zinc	[0.9550]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180092
Filename: tr213157

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 15:04

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.5320]	100.0000	ug/L	<RL		
Antimony	[27.600]	60.00000	ug/L	<RL		
Arsenic	[2.3600]	5.000000	ug/L	<RL		
Barium	[0.2030]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0940]	5.000000	ug/L	<RL		
Calcium	[7.7490]	500.0000	ug/L	<RL		
Chromium	[0.6020]	10.00000	ug/L	<RL		
Cobalt	[0.3950]	10.00000	ug/L	<RL		
Copper	[0.5270]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[1.3500]	3.000000	ug/L	<RL		
Magnesium	[2.2830]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[3.9800]	20.00000	ug/L	<RL		
Nickel	[0.4440]	20.00000	ug/L	<RL		
Selenium	[1.0100]	5.000000	ug/L	<RL		
Silver	[0.7990]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.2900]	10.00000	ug/L	<RL		
Vanadium	[0.1800]	10.00000	ug/L	<RL		
Zinc	[0.6600]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180005

Run Name :
Filename : tr213070

Injected : 08-AUG-2003 07:19
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	478800.0	ug/L	-4		
Antimony	500.0000	486.0000	ug/L	-3	20	
Arsenic	500.0000	481.0000	ug/L	-4	20	
Barium	500.0000	451.0000	ug/L	-10	20	
Beryllium	500.0000	405.0000	ug/L	-19	20	
Cadmium	1000.000	785.0000	ug/L	-22	20	# ***
Calcium	500000.0	384200.0	ug/L	-23		
Chromium	500.0000	402.0000	ug/L	-20	20	
Cobalt	500.0000	397.0000	ug/L	-21	20	# ***
Copper	500.0000	486.0000	ug/L	-3	20	
Iron	200000.0	169400.0	ug/L	-15		
Lead	1000.000	914.0000	ug/L	-9	20	
Magnesium	500000.0	467500.0	ug/L	-7		
Manganese	500.0000	441.0000	ug/L	-12	20	
Molybdenum	500.0000	445.0000	ug/L	-11	20	
Nickel	1000.000	900.0000	ug/L	-10	20	
Selenium	500.0000	452.0000	ug/L	-10	20	
Silver	1000.000	662.0000	ug/L	-34	20	# ***
Thallium	500.0000	428.0000	ug/L	-14	20	
Titanium	20000.00	1800.000	ug/L	-91		
Vanadium	500.0000	439.0000	ug/L	-12	20	
Zinc	1000.000	888.0000	ug/L	-11	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180080

Run Name :
Filename : tr213145

Injected : 08-AUG-2003 13:34
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	455200.0	ug/L	-9			
Antimony	500.0000	429.0000	ug/L	-14	20		
Arsenic	500.0000	477.0000	ug/L	-5	20		
Barium	500.0000	445.0000	ug/L	-11	20		
Beryllium	500.0000	429.0000	ug/L	-14	20		
Cadmium	1000.000	811.0000	ug/L	-19	20		
Calcium	500000.0	367400.0	ug/L	-27			
Chromium	500.0000	411.0000	ug/L	-18	20		
Cobalt	500.0000	404.0000	ug/L	-19	20		
Copper	500.0000	476.0000	ug/L	-5	20		
Iron	200000.0	160900.0	ug/L	-20			
Lead	1000.000	881.0000	ug/L	-12	20		
Magnesium	500000.0	450500.0	ug/L	-10			
Manganese	500.0000	420.0000	ug/L	-16	20		
Molybdenum	500.0000	422.0000	ug/L	-16	20		
Nickel	1000.000	875.0000	ug/L	-13	20		
Selenium	500.0000	459.0000	ug/L	-8	20		
Silver	1000.000	958.0000	ug/L	-4	20		
Thallium	500.0000	414.0000	ug/L	-17	20		
Titanium	20000.00	1770.000	ug/L	-91			
Vanadium	500.0000	431.0000	ug/L	-14	20		
Zinc	1000.000	872.0000	ug/L	-13	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180090

Run Name :
Filename : tr213155

Injected : 08-AUG-2003 14:46
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	420800.0	ug/L	-16		
Antimony	500.0000	455.0000	ug/L	-9	20	
Arsenic	500.0000	468.0000	ug/L	-6	20	
Barium	500.0000	481.0000	ug/L	-4	20	
Beryllium	500.0000	452.0000	ug/L	-10	20	
Cadmium	1000.000	863.0000	ug/L	-14	20	
Calcium	500000.0	343100.0	ug/L	-31		
Chromium	500.0000	434.0000	ug/L	-13	20	
Cobalt	500.0000	430.0000	ug/L	-14	20	
Copper	500.0000	515.0000	ug/L	3	20	
Iron	200000.0	151000.0	ug/L	-25		
Lead	1000.000	933.0000	ug/L	-7	20	
Magnesium	500000.0	423900.0	ug/L	-15		
Manganese	500.0000	443.0000	ug/L	-11	20	
Molybdenum	500.0000	428.0000	ug/L	-14	20	
Nickel	1000.000	918.0000	ug/L	-8	20	
Selenium	500.0000	449.0000	ug/L	-10	20	
Silver	1000.000	1120.000	ug/L	12	20	
Thallium	500.0000	400.0000	ug/L	-20	20	
Titanium	20000.00	1740.000	ug/L	-91		
Vanadium	500.0000	456.0000	ug/L	-9	20	
Zinc	1000.000	929.0000	ug/L	-7	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73317180 Instrument: MET07 TJA Trace ICP Begun: 08-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
001	tr213066	CS				08-AUG-2003	06:20	1.0				1		
002	tr213067	ICV				08-AUG-2003	06:29	1.0				2		
003	tr213068	ICB				08-AUG-2003	06:40	1.0						
004	tr213069	CRI				08-AUG-2003	06:44	1.0				3		
005	tr213070	ICSAB				08-AUG-2003	07:19	1.0				4	4:AL=478800	
006	tr213071	BLANK	QC221675	83532	Water	08-AUG-2003	07:25	1.0				3		
007	tr213072	BS	QC221676	83532	Water	08-AUG-2003	07:30	1.0				3		
008	tr213073	BLANK	QC221669	83531	Soil	08-AUG-2003	07:44	1.0				3		
009	tr213074	BSD	QC221677	83532	Water	08-AUG-2003	07:50	1.0				3		
010	tr213075	MSS	166803-001	83532	Water	08-AUG-2003	07:57	1.0				3		
011	tr213076	MS	QC221678	83532	Water	08-AUG-2003	08:02	1.0						
012	tr213077	MSD	QC221679	83532	Water	08-AUG-2003	08:06	1.0						
013	tr213078	SAMPLE	166803-007	83532	Water	08-AUG-2003	08:11	1.0						
014	tr213079	CCV				08-AUG-2003	08:16	1.0				5		
015	tr213080	CCB				08-AUG-2003	08:20	1.0						
016	tr213081	SAMPLE	166804-001	83532	Water	08-AUG-2003	08:24	1.0						
017	tr213082	SAMPLE	166804-024	83532	Water	08-AUG-2003	08:28	1.0						
018	tr213083	BS	QC221670	83531	Soil	08-AUG-2003	08:32	1.0						
019	tr213084	BSD	QC221671	83531	Soil	08-AUG-2003	08:36	1.0						
020	tr213085	MSS	166804-002	83531	Soil	08-AUG-2003	08:42	1.0					2:FE=162800	
021	tr213086	SER	QC221674	83531	Soil	08-AUG-2003	08:48	5.0						
022	tr213087	MS	QC221672	83531	Soil	08-AUG-2003	08:51	1.0					3:FE=186600	
023	tr213088	MSD	QC221673	83531	Soil	08-AUG-2003	08:55	1.0					4:FE=248400	
024	tr213089	SAMPLE	166804-003	83531	Soil	08-AUG-2003	09:00	1.0					3:FE=216900	
025	tr213090	SAMPLE	166804-004	83531	Soil	08-AUG-2003	09:04	1.0					3:FE=190400	
026	tr213091	CCV				08-AUG-2003	09:31	1.0				6		
027	tr213092	CCB				08-AUG-2003	09:40	1.0						
028	tr213093	SAMPLE	166804-005	83531	Soil	08-AUG-2003	09:45	1.0					2:FE=190600	
029	tr213094	SAMPLE	166804-006	83531	Soil	08-AUG-2003	09:48	1.0					1:FE=160300	
030	tr213095	SAMPLE	166804-007	83531	Soil	08-AUG-2003	09:52	1.0					3:FE=179800	
031	tr213096	SAMPLE	166804-008	83531	Soil	08-AUG-2003	09:56	1.0					2:FE=187600	
032	tr213097	SAMPLE	166804-009	83531	Soil	08-AUG-2003	10:00	1.0					1:FE=149400	

Std used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: McW Date: 8/13

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73317180 Instrument: MET07 TJA Trace ICP Begun: 08-AUG-2003

#	Filename Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr213098 SAMPLE	166804-010	83531	Soil	08-AUG-2003	10:04	1.0	44.44444					3:FE=177500
034	tr213099 SAMPLE	166804-011	83531	Soil	08-AUG-2003	10:08	1.0	48.07692					1:FE=138700
035	tr213100 SAMPLE	166804-012	83531	Soil	08-AUG-2003	10:12	1.0	42.91845					1:FE=153900
036	tr213101 SAMPLE	166804-013	83531	Soil	08-AUG-2003	10:18	1.0	41.32231					2:FE=169000
037	tr213102 SAMPLE	166804-014	83531	Soil	08-AUG-2003	10:22	1.0	39.21569					3:FE=192800
038	tr213103 CCV				08-AUG-2003	10:32	1.0	1.0	1		6		
039	tr213104 CCB				08-AUG-2003	10:39	1.0	1.0					
040	tr213105 SAMPLE	166804-015	83531	Soil	08-AUG-2003	10:43	1.0	44.05286					4:CA=207000
041	tr213106 SAMPLE	166804-016	83531	Soil	08-AUG-2003	10:47	1.0	45.87156					1:FE=143900
042	tr213107 SAMPLE	166804-017	83531	Soil	08-AUG-2003	10:51	1.0	46.94836					2:FE=156400
043	tr213108 SAMPLE	166804-018	83531	Soil	08-AUG-2003	10:55	1.0	49.26108					1:FE=149100
044	tr213109 SAMPLE	166804-019	83531	Soil	08-AUG-2003	10:59	1.0	45.24887					2:FE=176200
045	tr213110 SAMPLE	166804-020	83531	Soil	08-AUG-2003	11:03	1.0	45.04505					2:FE=181600
046	tr213111 SAMPLE	166804-021	83531	Soil	08-AUG-2003	11:07	1.0	42.19409					3:FE=334200
047	tr213112 BLANK	QC221663	83530	Soil	08-AUG-2003	11:13	1.0	50.0	4				
048	tr213113 BS	QC221664	83530	Soil	08-AUG-2003	11:17	1.0	50.0	4				
049	tr213114 BSD	QC221665	83530	Soil	08-AUG-2003	11:21	1.0	50.0	4				
050	tr213115 CCV				08-AUG-2003	11:28	1.0	1.0			5		
051	tr213116 CCB				08-AUG-2003	11:33	1.0	1.0					
052	tr213117 MSS	166797-001	83530	Soil	08-AUG-2003	11:37	1.0	48.30918	4				
053	tr213118 SER	QC221668	83530	Soil	08-AUG-2003	11:41	5.0	48.30918					
054	tr213119 MS	QC221666	83530	Soil	08-AUG-2003	11:44	1.0	42.55319	2				
055	tr213120 MSD	QC221667	83530	Soil	08-AUG-2003	11:48	1.0	40.65041	2				
056	tr213121 SAMPLE	166803-002	83530	Soil	08-AUG-2003	11:52	1.0	41.49378					3:FE=444800
057	tr213122 SAMPLE	166803-003	83530	Soil	08-AUG-2003	11:55	1.0	46.08295					3:FE=224100
058	tr213123 SAMPLE	166803-004	83530	Soil	08-AUG-2003	11:59	1.0	45.45455					2:MG=233000
059	tr213124 SAMPLE	166803-005	83530	Soil	08-AUG-2003	12:02	1.0	49.01961					2:MG=222700
060	tr213125 SAMPLE	166803-006	83530	Soil	08-AUG-2003	12:06	1.0	49.26108					2:MG=360000
061	tr213126 CCV				08-AUG-2003	12:10	1.0	1.0	1		6		
062	tr213127 CCB				08-AUG-2003	12:16	1.0	1.0					
063	tr213128 SAMPLE	166804-022	83530	Soil	08-AUG-2003	12:20	1.0	48.78049					1:FE=151800
064	tr213129 SAMPLE	166804-023	83530	Soil	08-AUG-2003	12:24	1.0	50.0					1:FE=124600

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: metu Date: 8/13

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73317180 Instrument: MET07 TJA Trace ICP Begun: 08-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr213130	SAMPLE	166797-002	83530	Soil	08-AUG-2003	12:27	1.0	44.05286					2:AL=138100
066	tr213131	SAMPLE	166797-003	83530	Soil	08-AUG-2003	12:31	1.0	45.45455					2:AL=138700
067	tr213132	SAMPLE	166798-001	83530	Soil	08-AUG-2003	12:34	1.0	39.52569	1				
068	tr213133	CCV				08-AUG-2003	12:41	1.0	1.0			5		
069	tr213134	CCB				08-AUG-2003	12:46	1.0	1.0					
070	tr213135	SAMPLE	166798-001	83530	Soil	08-AUG-2003	12:51	1.0	39.52569					
071	tr213136	SAMPLE	166798-002	83530	Soil	08-AUG-2003	12:54	1.0	40.16064					2:AL=186000
072	tr213137	SAMPLE	166798-003	83530	Soil	08-AUG-2003	12:57	1.0	44.05286	2				5:CA=201300
073	tr213138	SAMPLE	166798-003	83530	Soil	08-AUG-2003	13:05	50.0	44.05286					
074	tr213139	PDS	QC221754	83530	Soil	08-AUG-2003	13:10	1.0	48.30918	1	9	7	8	1:FE=112400
075	tr213140	SAMPLE	166581-002	83515	Air	08-AUG-2003	13:14	1.0	600.0240					
076	tr213141	SAMPLE	166581-004	83515	Air	08-AUG-2003	13:17	1.0	600.0240					
077	tr213142	SAMPLE	166581-010	83515	Air	08-AUG-2003	13:21	1.0	600.0240					1:ZN=5840.00
078	tr213143	SAMPLE	166695-002	83515	Air	08-AUG-2003	13:24	1.0	600.0240					
079	tr213144	SAMPLE	166695-003	83515	Air	08-AUG-2003	13:28	1.0	600.0240					
080	tr213145	ICSAB				08-AUG-2003	13:34	1.0	1.0			4		4:AL=455200
081	tr213146	CCV				08-AUG-2003	13:41	1.0	1.0			6		
082	tr213147	CCB				08-AUG-2003	13:46	1.0	1.0					
083	tr213148	BLANK	QC221745	83546	Soil	08-AUG-2003	13:50	1.0	50.0					
084	tr213149	BS	QC221746	83546	Soil	08-AUG-2003	13:55	1.0	50.0					
085	tr213150	BSD	QC221747	83546	Soil	08-AUG-2003	13:58	1.0	50.0					
086	tr213151	MSS	166668-028	83546	Soil	08-AUG-2003	14:02	1.0	50.0	2				2:FE=178300
087	tr213152	SER	QC221750	83546	Soil	08-AUG-2003	14:09	5.0	50.0	1				
088	tr213153	MS	QC221748	83546	Soil	08-AUG-2003	14:12	1.0	49.01961					3:FE=204000
089	tr213154	MSD	QC221749	83546	Soil	08-AUG-2003	14:16	1.0	48.30918					3:FE=190000
090	tr213155	ICSAB				08-AUG-2003	14:46	1.0	1.0			4		4:MG=423900
091	tr213156	CCV				08-AUG-2003	14:54	1.0	1.0			6		
092	tr213157	CCB				08-AUG-2003	15:04	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: AWW Date: 8/8/03

REPORTING SUMMARY FOR 166668 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V	Z N
166668-001	MET07	08/07/03 12:34	1.0		+		+					+	+									+
166668-002	MET07	08/07/03 12:37	1.0		+		+					+	+									+
166668-003	MET07	08/07/03 12:41	1.0		+		+					+	+									+
166668-004	MET07	08/07/03 12:44	1.0		+		+					+	+									+
166668-005	MET07	08/07/03 12:48	1.0		+		+					+	+									+
166668-006	MET07	08/07/03 12:51	1.0		+		+					+	+									+
166668-008	MET07	08/07/03 13:42	1.0		+		+					+	+									+
166668-009	MET07	08/07/03 14:44	1.0		+		+					+	+									+
166668-011	MET07	08/06/03 18:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166668-011	MET01	08/07/03 13:43	5.0										+									
166668-012	MET07	08/06/03 18:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166668-012	MET01	08/07/03 13:46	1.0										+									
166668-014	MET07	08/07/03 14:48	1.0		+		+					+	+									+
166668-015	MET07	08/07/03 14:51	1.0		+		+					+	+									+
166668-016	MET07	08/07/03 14:55	1.0		+		+					+	+									+
166668-018	MET07	08/07/03 14:58	1.0		+		+					+	+									+
166668-019	MET07	08/07/03 15:02	1.0		+		+					+	+									+
166668-020	MET07	08/07/03 15:05	1.0		+		+					+	+									+
166668-021	MET07	08/07/03 15:09	1.0		+		+					+	+									+
166668-022	MET07	08/07/03 15:12	1.0		+		+					+	+									+
166668-023	MET07	08/07/03 15:30	1.0		+		+					+	+									+
166668-024	MET07	08/07/03 15:34	1.0		+		+					+	+									+
166668-025	MET07	08/07/03 15:37	1.0		+		+					+	+									+
166668-026	MET07	08/07/03 10:53	1.0		+		+					+	+									+
166668-027	MET07	08/07/03 10:57	1.0		+		+					+	+									+
166668-028	MET07	08/08/03 14:02	1.0		+		+					+	+									+
166668-029	MET07	08/07/03 11:00	1.0		+		+					+	+									+
166668-030	MET07	08/07/03 11:04	1.0		+		+					+	+									+

REPORTING SUMMARY FOR 166668 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166668-031	MET07	08/07/03 11:07	1.0		+		+					+	+									+
166668-032	MET07	08/07/03 13:16	1.0		+		+					+	+									+
QC221464	MET07	08/07/03 13:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221465	MET07	08/07/03 13:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221466	MET07	08/07/03 13:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221467	MET07	08/07/03 13:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221468	MET07	08/07/03 13:31	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221469	MET07	08/07/03 13:24	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221469	MET07	08/07/03 13:35	5.0										+									
QC221557	MET07	08/07/03 13:39	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221487	MET07	08/06/03 17:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221488	MET07	08/06/03 17:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221489	MET07	08/06/03 17:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221489	MET07	08/07/03 15:16	1.0															+				
QC221490	MET07	08/06/03 17:58	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221490	MET01	08/07/03 12:57	5.0	+									+	+	+					+		
QC221491	MET07	08/06/03 18:02	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221491	MET01	08/07/03 12:59	5.0	+									+							+		
QC221492	MET07	08/06/03 17:53	5.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221492	MET01	08/07/03 12:47	5.0																			
QC221492	MET01	08/07/03 12:54	25.0	+									+							+		
QC221493	MET07	08/06/03 18:12	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221493	MET01	08/07/03 13:27	5.0	+									+									
QC221494	MET07	08/06/03 18:16	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221494	MET01	08/07/03 13:30	5.0	+									+									
QC221624	MET01	08/07/03 14:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221498	MET07	08/07/03 09:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221499	MET07	08/07/03 10:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221500	MET07	08/07/03 10:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221501	MET07	08/07/03 10:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221502	MET07	08/07/03 10:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

REPORTING SUMMARY FOR 166668 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A L	S B	A S	B A	B E	C D	C R	C O	C U	F E	P B	M G	M N	N I	S E	A G	T L	V L	Z N
QC221503	MET07	08/07/03 10:15	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221503	MET07	08/07/03 10:42	50.0	+									+									
QC221556	MET07	08/07/03 12:15	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221745	MET07	08/08/03 13:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221746	MET07	08/08/03 13:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221747	MET07	08/08/03 13:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221748	MET07	08/08/03 14:12	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221749	MET07	08/08/03 14:16	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221750	MET07	08/08/03 14:09	5.0	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories

Sample Preparation Summary

08-AUG-2003 12:09

Batch Number : 83546
Date Extracted : 08-AUG-2003
Extracted by : Dennis Dougherty
Prep Method : 3050

Analysis : N/A
Bggroup : ICAP
Units : g
Clean-up :

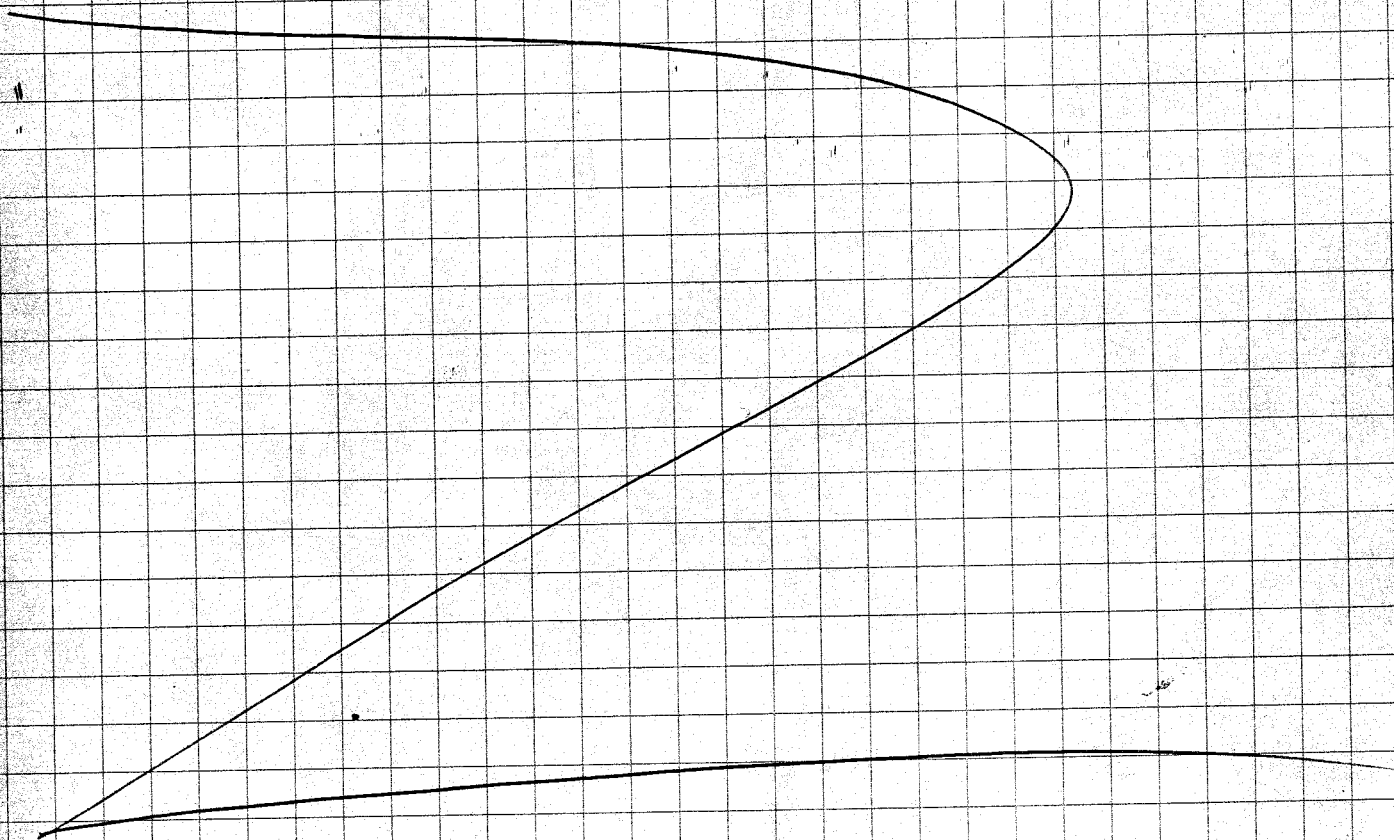
Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/W	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166668-028		Treadwell & Rollo	Soil	2	g	100	50	1					BA, CU, PB, SB, ZN
QC221745	BLANK		Soil	2	g	100	50	1					ICAP
QC221746	BS		Soil	2	g	100	50	1	1	1			ICAP
QC221747	BSD		Soil	2	g	100	50	1	1	1			ICAP
QC221748	MS	of 166668-028	Soil	2.04	g	100	49.0196	1	1	1			ICAP
QC221749	MSD	of 166668-028	Soil	2.07	g	100	48.3091	1	1	1			ICAP
QC221750	SER	of 166668-028	Soil	2	g	100	50	1					ICAP

Prep Chemist: N 8-18-03Reviewed By: mmDate: 8/28/03Relinquished By: N 8-18-03Received By: mmDate: 8/28/03

Griffiths

Acid:	1.7 Hous:	Y 05000	108660
	12 Hous:	Dalm 60	Y 08024
	1 Hous:	Vme 60	Y 229530
	1.1 Hous:	Y 1208	68065



Read and Understood By

Wm. H. H. H. H.

585

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8/8/20

Date _____

Curtis & Tompkins Laboratories Sample Preparation Summary

07-AUG-2003 11:33

Batch Number : 83478
Date Extracted: 06-AUG-2003
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SSS286
Spike #2 ID : 03SSS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166668-001		Treadwell & Rollo	Soil	2	g	100	50	1					BA, CU, PB, SB, ZN	
166668-002		Treadwell & Rollo	Soil	2.32	g	100	43.1034	1					BA, CU, PB, SB, ZN	
166668-003		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1					BA, CU, PB, SB, ZN	
166668-004		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1					BA, CU, PB, SB, ZN	
166668-005		Treadwell & Rollo	Soil	2.3	g	100	43.4782	1					BA, CU, PB, SB, ZN	
166668-006		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1					BA, CU, PB, SB, ZN	
166668-008		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1					BA, CU, PB, SB, ZN	
166668-009		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1					BA, CU, PB, SB, ZN	
166668-014		Treadwell & Rollo	Soil	2	g	100	50	1					BA, CU, PB, SB, ZN	
166668-015		Treadwell & Rollo	Soil	2.35	g	100	42.5531	1					BA, CU, PB, SB, ZN	
166668-016		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1					BA, CU, PB, SB, ZN	
166668-018		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1					BA, CU, PB, SB, ZN	
166668-019		Treadwell & Rollo	Soil	2.24	g	100	44.6428	1					BA, CU, PB, SB, ZN	
166668-020		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1					BA, CU, PB, SB, ZN	
166668-021		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1					BA, CU, PB, SB, ZN	
166668-022		Treadwell & Rollo	Soil	2.38	g	100	42.0168	1					BA, CU, PB, SB, ZN	
166668-023		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1					BA, CU, PB, SB, ZN	
166668-024		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1					BA, CU, PB, SB, ZN	
166668-025		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1					BA, CU, PB, SB, ZN	
166668-032		Treadwell & Rollo	Soil	2.27	g	100	44.0528	1					BA, CU, PB, SB, ZN	mss
QC221464	BLANK		Soil	2	g	100	50	1					ICAP	
QC221465	BS		Soil	2	g	100	50	1					ICAP	
QC221466	BSD		Soil	2	g	100	50	1					ICAP	
QC221467	MS	of 166668-032	Soil	2.57	g	100	38.9105	1					ICAP	
QC221468	MSD	of 166668-032	Soil	2.32	g	100	43.1034	1					ICAP	
QC221469	SER	of 166668-032	Soil	2.27	g	100	44.0528	1					ICAP	
QC221557	PDS	of 166668-032	Soil	2.27	g	100	44.0528	1					ICAP	

Prep Chemist:

MW for VV

Reviewed By:

MW

Date:

8/7/03

Relinquished By:

MW

Received By:

MW

Date:

8/7/03

08/06/03	Sample	mass (g)	Final Vol. (ml)	Filtered yes/no	Comments
BK QC 22/464		0	100.0	yes	
BS	22/465				<u>SPICES</u>
BS	22/466				*03SS286 (1.0 ml)
166668	032 MS	257			*03SS287 ↓
	032 MS	232			
	001	200			
	002	232			<u>Reagents</u>
	003	209			1:1 HNO ₃ 105024-080603
	004	226			HNO ₃ 105050 JT Baker
	005	230			H ₂ O ₂ 10295317 VWR
	006	203			1:1 HCL 112028/080603
	008	233			
	009	227			
	014	200			
	015	235			
	016	213			
	018	205			
	019	224			
	020	216			
	021	207			
	022	238			
	023	229			
	024	201			
	025	215			
MS	032	227			

Continued on Page

Read and Understood By

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Signed

08/06/03

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Signed

8/7/03

Date

Curtis & Tompkins Laboratories Sample Preparation Summary 06-AUG-2003 16:37

Batch Number : 83482
 Date Extracted : 06-AUG-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3050
 Analysis : N/A
 Bgroup : ICAP
 Units : 9
 Clean-up :
 Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
16668-011		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				TAL/ICP	
16668-012		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				TAL/ICP	
16682-001		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
16682-003		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
16682-006		Treadwell & Rollo	Soil	2.32	g	100	43.1034	1				BA, CU, PB, SB, ZN	
16682-007		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	mss
16682-008		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				BA, CU, PB, SB, ZN	
16682-009		Treadwell & Rollo	Soil	2.42	g	100	41.3223	1				BA, CU, PB, SB, ZN	mss
16682-010		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
16682-011		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
16682-012		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
16682-015		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
16682-016		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
16682-017		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1				BA, CU, PB, SB, ZN	
16682-018		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
16682-019		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	
166711-001		ConocoPhillips Company	Miscell.	2.13	g	100	46.9483	1				V	
166711-002		ConocoPhillips Company	Miscell.	2.07	g	100	48.3091	1				V	
166711-003		ConocoPhillips Company	Miscell.	2.25	g	100	44.4444	1				V	
166711-004		ConocoPhillips Company	Miscell.	2.12	g	100	47.1698	1				V	
QC221487	BLANK		Soil	2	g	100	50	1				ICAP	
QC221488	BS		Soil	2	g	100	50	1				ICAP	
QC221489	BSD		Soil	2	g	100	50	1				ICAP	
QC221490	MS	of 166682-007	Soil	2.04	g	100	49.0196	1				ICAP	
QC221491	MSD	of 166682-007	Soil	2.14	g	100	46.7289	1				ICAP	
QC221492	SER	of 166682-007	Soil	2.15	g	100	46.5116	1				ICAP	
QC221493	MS	of 166682-010	Soil	2.15	g	100	46.5116	1				ICAP	
QC221494	MSD	of 166682-010	Soil	2.21	g	100	45.2488	1				ICAP	

Prep Chemist: Patricia Vergara Reviewed By: NW Date: 8/6/03
 Relinquished By: Patricia Vergara Received By: NW Date: 8/6/03

08/06/03

Batch# 83482

ICAR/M 3050

SAMPLE ID	Init Vol (g)	Final Vol (mL)	Filtered Yes/No	Comments
A 11666608 - 011	2.21	100.0	Yes	SPICES
↓ 012	2.16			✓ 0355284 (1.0mL)
11666602 - 001	2.13			✓ 0355287 ↓
003	2.23			
006	2.32			
007 (MSS)	2.15			Reagents
008	2.22			1: HNO3 JT Baker #408024/080603
009	2.42			HNO3 JT Baker #405050
010 (MSS)	2.09			H2O2 VWR #42295317
011	2.17			14 HCL JT Baker #412024/02/0603
012	2.13			
015	2.11			
016	2.18			
017	2.29			
018	2.01			
019	2.33			
A-C 1166711 - 001 comps	2.13			
002	2.07			
003	2.25			
004	2.12			
HB-OC 221487				
✓ BS 221488				
✓ BS 221489				
✓ MS-6082-007	2.04			
✓ MS-6082-007	2.14			
✓ MS-6082-010	2.15			
✓ MS-6082-010	2.21			

Continued on Page

Read and Understood By

Patricia Vergara

08/06/03

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Signed

mm

8/6/03

Date

Curtis & Tompkins Laboratories Sample Preparation Summary 08-AUG-2003 10:45

Batch Number : 83485
 Date Extracted: 06-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Analyses Vol	Comments
166668-026		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN
166668-027		Treadwell & Rollo	Soil	2.56	g	100	39.0625	1				BA, CU, PB, SB, ZN
166668-029		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN
166668-030		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN
166668-031		Treadwell & Rollo	Soil	2.49	g	100	40.1606	1				BA, CU, PB, SB, ZN
166682-004		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				TAL/ICP
166682-005		Treadwell & Rollo	Soil	2.44	g	100	40.9836	1				TAL/ICP
166682-013		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				TAL/ICP
166733-001		Innovative Technical Solutions	Soil	2.11	g	100	47.3933	1				CU, PB, SB
166733-002		Innovative Technical Solutions	Soil	2.88	g	100	34.7222	1				CU, PB, SB
166733-003		Innovative Technical Solutions	Soil	2.63	g	100	38.0228	1				CU, PB, SB
166758-002		Presidio Trust	Soil	2.11	g	100	47.3933	1				PB
166758-003		Presidio Trust	Soil	2.34	g	100	42.7350	1				PB
166758-004		Presidio Trust	Soil	2.09	g	100	47.8468	1				PB
166758-005		Presidio Trust	Soil	2.11	g	100	47.3933	1				PB
166758-006		Presidio Trust	Soil	2.16	g	100	46.2962	1				PB
QC221498	BLANK		Soil	2	g	100	50	1				ICAP
QC221499	BS		Soil	2	g	100	50	1	1			ICAP
QC221500	BSD		Soil	2	g	100	50	1	1			ICAP
QC221501	MS	of 166682-013	Soil	2.18	g	100	45.8715	1	1			ICAP
QC221502	MSD	of 166682-013	Soil	2.5	g	100	40	1	1			ICAP
QC221503	SER	of 166682-013	Soil	2.19	g	100	45.6621	1	1			ICAP
QC221556	PDS	of 166682-013	Soil	2.19	g	100	45.6621	1				ICAP

Prep Chemist: MM for V Reviewed By: MM Date: 8/8/03
 Relinquished By: MM Received By: MM Date: 8/8/03

Soil Digestion

Notebook No. BK 1775
Continued From Page 0

08/06/03

BK 83485

ICAP/8050

Sample	Final Val (ml)	Filtered	yes/no	Comments
BK QC 221498	100.0	yes		SPKES
KBS 221499				* 0355286 (10ml)
KBS 221500				* 0355287
* 166682-013 MS	2.18			
* -013 MS	2.50			
166682-026	2.21			
-028	2.56			
-028	2.03			
-029	2.09			
-030	2.33			
-031	2.49			
166682-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
166682-001	2.20			
-005	2.44			
MS -013	2.19			
166753-001	2.11			
-002	2.88			
-003	2.63			
166758-002	2.11			
-003	2.34			
-004	2.09			
-005	2.11			
-006	2.16			

Continued on Page

Read and Understood By

P. M. J.

Signed

08/06/03

Date

278

K. W.

Signed

8/14

Date

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17726
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82361
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	icp15878	13246860013	165835-015	20-JUN-2003 13:56
2	icp15878	13246860014	165835-016	20-JUN-2003 13:59
3	icp15879	13246860016	165835-018	20-JUN-2003 14:07
4	icp15879	13246860017	165835-019	20-JUN-2003 14:14
5	icp15879	13246860018	165835-020	20-JUN-2003 14:17
6	icp15879	13246860019	165835-021	20-JUN-2003 14:20
7	icp15879	13246860021	165835-017	20-JUN-2003 14:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	10.000000	10.265000	10.565000	10.720000	10.850000	10.880000	9.1400000	9.3050000	2.3	5.0	mg/Kg	u
Antimony	6.000000	5.1850000	5.6050000	5.9500000	5.4950000	4.5905000	5.1150000	5.4550000	1.4	3.0	mg/Kg	u
Barium	1.000000	1.0510000	1.0640000	1.0165000	1.0135000	1.0110000	0.9060000	0.9680000	0.17	0.50	mg/Kg	u
Beryllium	0.200000	0.2681000	0.2712500	0.2710000	0.2751000	0.2649000	0.2502000	0.2808000	0.030	0.10	mg/Kg	u
Calcium	20.000000	20.105000	20.080000	19.505000	19.780000	19.015000	17.190000	17.885000	3.6	25	mg/Kg	u
Cobalt	2.000000	1.9350000	1.9585000	1.8975000	1.9775000	1.8580000	1.7445000	1.9020000	0.25	1.0	mg/Kg	u
Copper	1.000000	1.0555000	1.1025000	1.0675000	0.9805000	0.9785000	0.9450000	0.9145000	0.22	0.50	mg/Kg	u
Iron	10.000000	10.855000	10.425000	10.225000	10.365000	10.300000	9.3850000	9.7200000	1.5	5.0	mg/Kg	u
Magnesium	20.000000	18.880000	19.215000	18.970000	19.470000	18.730000	17.150000	17.590000	2.7	25	mg/Kg	u
Manganese	1.000000	0.9225000	0.9340000	0.9325000	0.9445000	0.9725000	0.8505000	0.8345000	0.16	0.50	mg/Kg	u
Molybdenum	2.000000	2.0810000	2.0650000	2.1815000	2.0880000	2.0590000	1.9790000	2.0000000	0.21	1.0	mg/Kg	u
Silver	0.500000	0.4909500	0.4963000	0.3458000	0.3979000	0.3888000	0.3394000	0.3036500	0.23	0.25	mg/Kg	Bu
Zinc	2.000000	2.3590000	2.2925000	2.1120000	2.1150000	2.0200000	2.0170000	2.1090000	0.41	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17728
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	icp15880	13246860025	165835-022	20-JUN-2003 14:56
2	icp15880	13246860026	165835-023	20-JUN-2003 14:58
3	icp15880	13246860027	165835-024	20-JUN-2003 15:01
4	icp15880	13246860028	165835-025	20-JUN-2003 15:03
5	icp15880	13246860029	165835-026	20-JUN-2003 15:05
6	icp15880	13246860030	165835-027	20-JUN-2003 15:08
7	icp15880	13246860031	165835-028	20-JUN-2003 15:10

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Cadmium	0.7500000	0.6970000	0.6700000	0.6555000	0.7260000	0.7830000	0.7190000	0.7675000	0.15	0.25	mg/Kg	Bu
Nickel	3.0000000	2.8370000	2.4365000	3.0390000	3.2460000	2.8850000	2.7440000	2.6855000	0.81	1.0	mg/Kg	Bu
Vanadium	1.5000000	1.3975000	1.4940000	1.4575000	1.4725000	1.3815000	1.3915000	1.5540000	0.20	0.50	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17743
Study Date: 27-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82540
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	icp15896	13256931017	165835-029	27-JUN-2003 11:21
2	icp15896	13256931018	165835-030	27-JUN-2003 11:25
3	icp15896	13256931019	165835-031	27-JUN-2003 12:33
4	icp15896	13256931020	165835-032	27-JUN-2003 12:36
5	icp15897	13256931021	165835-033	27-JUN-2003 12:42
6	icp15897	13256931022	165835-034	27-JUN-2003 12:45
7	icp15897	13256931023	165835-035	27-JUN-2003 12:49

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	50.000000	44.450000	46.605000	50.100000	50.450000	49.705000	49.555000	49.065000	6.9	25	mg/Kg	u
Chromium	1.00000000	0.85500000	1.09800000	1.02950000	1.01700000	0.95050000	1.11800000	1.00150000	0.28	0.50	mg/Kg	Bu
Lead	30.000000	29.090000	32.975000	31.890000	32.245000	28.100000	30.890000	30.575000	5.5	15	mg/Kg	u
Potassium	50.000000	47.905000	42.560000	42.820000	55.850000	41.830000	46.550000	50.750000	16	25	mg/Kg	Bu
Selenium	50.000000	45.580000	49.925000	49.850000	51.950000	50.500000	49.015000	48.370000	6.3	25	mg/Kg	u
Sodium	50.000000	52.650000	52.950000	54.450000	56.250000	56.000000	55.300000	56.150000	4.8	25	mg/Kg	Bu
Thallium	50.000000	47.560000	52.350000	53.200000	53.950000	48.675000	51.350000	52.150000	7.4	25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg	u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg	u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg	u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg	u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg	Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83416
 Date Started: 04-AUG-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166645-021		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-022		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-023		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-024		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-025		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-026		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-027		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-028		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-029		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-030		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-031		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-032		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-033		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-034		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166645-035		Treadwell & Rollo	Soil	MOISTURE	06-AUG-2003
166668-001		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-002		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-003		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-004		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-005		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
QC221232	SDUP	of 166668-001	Soil	MOISTURE	

Percent Moisture Summary Report

Batch: 83416
Date: 08/05/03
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166645-021	15.3566	21.8437	21.7773	99	1
166645-022	15.3261	21.9900	21.3952	91	9
166645-023	15.4425	21.7136	21.5080	97	3
166645-024	16.0002	23.7720	22.9926	90	10
166645-025	10.9704	17.6480	16.1804	78	22
166645-026	15.3256	21.7513	21.4692	96	4
166645-027	15.3451	21.1657	20.9874	97	3
166645-028	15.2754	22.3992	22.2616	98	2
166645-029	15.3700	22.2176	22.0918	98	2
166645-030	10.9666	16.6545	16.5766	99	1
166645-031	15.4630	21.6880	21.6289	99	1
166645-032	15.9759	23.2715	23.1793	99	1
166645-033	15.0632	23.1414	22.9774	98	2
166645-034	15.3266	21.3852	21.1761	97	3
166645-035	11.1596	17.7016	17.5216	97	3
166668-001	11.7364	17.5221	17.4248	98	2
166668-002	10.9944	17.8072	17.7088	99	1
166668-003	15.9634	22.5069	22.2539	96	4
166668-004	15.8896	22.9790	22.8143	98	2
166668-005	15.8406	22.6009	21.6064	85	15
QC221232	11.1153	17.2032	17.0559	98	2
of 166668-001			RPD:	0.8%	36.0%

8/4/03

83416

Sample	Dish #	Tare wt.	Initial	Final wt.	Comments
Blank	20A	15.3252	—	15.3254	
166645-21	70D	15.3566	21.8437	21.7773	
-22 RM 21X	72	15.3261	21.6900	21.3952	
-23 RM 70D	21X	15.4225	21.7136	21.5080	
-24 RM 130D	72	16.0002	23.7720	22.9626	
-25	213D	10.9704 15.8209 RM	17.6480	16.1804	
-26	Y2	15.3256	21.7513	21.4692	
-27	9A	15.3451	21.1657	20.9374	
-28	113A	15.2754	22.3492	22.2616	
-29	4L	15.3700	22.2176	22.0918	
-30	2AX	10.9666	16.6545	16.5766	
-31	19	15.4630	21.6880	21.6289	
-32	30D	15.9759	23.2719	23.1793	
-33	103	15.0632	23.1414	22.9774	
-34	17C	15.3264	21.3852	21.1761	
-35	V	11.1596	17.7016	17.5216	
166668-1	A1	11.7364	17.5221	17.4248	
-1 DMP	II	11.1153	17.2032	17.0559	
-2	12A	10.9944	17.8072	17.7088	
-3	5D	15.9634	22.5069	22.2536	
-4	20D	15.8896	22.9790	22.8143	
-5	15D	15.8406	22.6009	21.6064	

OVEN TEMP: 105 °C

TIME IN: 11:55 A.M.

TIME OUT: 8:56 A.M. ON: 8/5/03

Continued on Page

R. Manning

8/4/03

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8/5/03

Percent Moisture Summary Report

Batch: 83417
 Date: 08/05/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166668-006	10.9373	17.6936	16.9046	88	12
166668-008	11.1361	17.8102	17.7165	99	1
166668-009	15.3989	22.1586	22.0401	98	2
166668-011	15.5912	21.5080	21.4677	99	1
166668-012	16.1037	22.7704	22.6743	99	1
166668-014	11.0526	17.9533	17.8211	98	2
166668-015	15.4154	22.1704	22.0590	98	2
166668-016	11.2531	22.3432	21.7627	95	5
166668-018	15.3249	21.1811	21.0824	98	2
166668-019	15.6892	22.6171	22.5270	99	1
166668-020	15.0684	21.3814	21.3258	99	1
166668-021	11.1899	17.5512	17.4824	99	1
166668-022	11.2184	17.6928	17.6334	99	1
166668-023	15.8293	22.8987	22.7790	98	2
166668-024	15.8126	22.1423	22.0550	99	1
166668-025	15.8268	21.7740	21.6498	98	2
166668-026	16.0186	22.8690	22.8113	99	1
166668-027	15.7218	22.6542	22.5652	99	1
166668-028	15.1950	22.2535	22.1700	99	1
166668-029	15.0576	21.9781	21.8777	99	1
QC221233	15.7647	22.9035	22.0568	88	12
of 166668-006			RPD:	0.2%	1.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83417
 Date Started: 04-AUG-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166668-006		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-008		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-009		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-011		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-012		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-014		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-015		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-016		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-018		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-019		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-020		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-021		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-022		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-023		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-024		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-025		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-026		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-027		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-028		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-029		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
QC221233	SDUP	of 166668-006	Soil	MOISTURE	

8/4/03

83417

Sample	Dish #	Tare wt.	Inv. wt.	Fin. wt.	Comments
Blank	95L	15.3347	—	15.3350	
166668- - 6	12L	10.9373	17.6936	16.6046	
- 6 DHP	X11	15.7647	22.6035	22.0968	
- 8	111	11.1361	17.8102	17.7165	
- 9	5H	15.3489	22.1586	22.0401	
- 11	8X	15.5912	21.5080	21.4677	
- 12	4D	16.1037	22.7704	22.6743	
- 14	ABL	11.0526	17.9533	17.8211	
- 15	52	15.4154	22.1704	22.0590	
- 16	V1	11.2531	22.3432	21.7627	
- 18	7X	15.3249	21.1811	21.0824	
- 19	13X	15.6892	22.6171	22.5270	
- 20	5L	15.0684	21.7814	21.3258	
- 21	XF	11.1899	17.5512	17.4824	
- 22	X11	11.2184	17.6928	17.6334	
- 23	21D	15.8293	22.8987	22.7760	
- 24	6X	15.8126	22.1423	22.0550	
- 25	11D	15.8268	21.7740	21.6498	
- 26	12D	16.0186	22.8490	22.8113	
- 27	★	15.7218	22.6542	22.5652	
- 28	FA	15.1950	22.2535	22.1700	
- 29	1975	15.0576	21.9781	21.8777	

OVEN TEMP: 105°C

TIME IN: 12:40 P.M.

TIME OUT: 9:10 A.M.

ON: 8/5/03

Continued on Page

Read and Understood By

R. Munnif

Signed

8/4/03

Date

292

L. Dechen

Signed

8/5/03

Date

Percent Moisture Summary Report

Batch: 83418
 Date: 08/05/03
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166668-030	15.4181	21.6818	21.5927	99	1
166668-031	15.3258	21.5616	21.4760	99	1
166668-032	15.4916	22.5342	22.4339	99	1
166682-001	15.1932	21.1847	20.5869	90	10
166682-003	15.3349	23.2599	23.0960	98	2
166682-004	15.1948	22.0321	21.6711	95	5
166682-005	15.6888	21.4443	21.2771	97	3
166682-006	15.2659	21.9502	21.8225	98	2
166682-007	15.4320	21.1024	20.8249	95	5
166682-008	15.6272	22.1418	21.9012	96	4
166682-009	15.3347	21.7616	21.5076	96	4
166682-010	15.6187	21.0613	20.7636	95	5
166682-011	15.1174	21.6529	21.4278	97	3
166682-012	15.2886	21.1569	20.7219	93	7
166682-013	15.2853	21.2583	21.0212	96	4
166682-015	15.4593	22.9849	22.7386	97	3
166682-016	15.5678	21.9167	20.6709	80	20
166682-017	15.4806	21.8758	20.5598	79	21
166682-018	15.0659	22.4872	21.3237	84	16
166682-019	15.5754	23.9899	22.6040	84	16
QC221234	15.5686	22.0136	21.4155	91	9
of 166682-001			RPD:	0.8%	7.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83418
 Date Started: 04-AUG-2003
 Batched by: Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166668-030		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-031		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-032		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-001		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-003		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-004		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-005		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-006		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-007		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-008		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-009		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-010		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-011		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-012		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-013		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-015		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-016		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-017		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-018		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-019		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
QC221234	SDUP	of 166682-001	Soil	MOISTURE	

8/4/03

83418

Sample	Dish #	Tare wt.	Ini. wt.	Fin wt.	Comments
Blank	11B	4.2262	-	4.2260	
166668-30	40	15.4181	21.6818	21.5927	
-31	17	15.3258	21.5016	21.4760	
-32	4A	15.4916	22.5342	22.4339	
166682-1	T	15.1932	21.1847	20.5869	
-1 DMP	29	15.5086	22.0136	21.4155	
-3	30	15.3349	23.2599	23.0960	
-4	146	15.1948	22.0321	21.6711	
-5	33	15.6888	21.4443	21.2771	
-6	34	15.2659	21.9502	21.8225	
-7	238	15.4320	21.1024	20.8244	
-8	1970	15.6272	22.1418	21.9012	
-9	3B1	15.3347	21.7616	21.5076	
-10	4	15.6187	21.0613	20.7636	
-11	203C	15.1134	21.629	21.4278	
-12	203C 26	15.2886	21.1569	20.7219	
-13	35	15.2853	21.2583	21.0212	
-15	C	15.4593	22.9849	22.7386	
-16	18X	15.5678	21.9167	20.6709	
-17	24	15.4806	21.8758	20.5598	
-18	3B	15.0659	22.4872	21.3237	
-19	5X	15.5754	23.9899	22.6040	

OVEN TEMP: 175°C

TIME IN 2:40 pm

TIME OUT 9:25 A.M.

IN: 8/5/03

Continued on Page

R. Mann

8/4/03

295

L. D. A. King

8/5/03



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

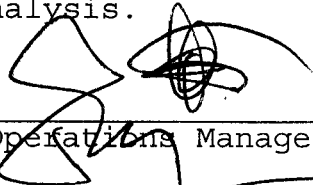
Laboratory Number 166682

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111


Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>
BAPSB03R[5.5]	166682-001
BAPSB03R[6]	166682-002
BAPSB07[5.5]	166682-003
BAPSB12[1]	166682-004
DUP080103C	166682-005
BAPSB12[3]	166682-006
BAPSB04[1][MSD]	166682-007
BAPSB04[3]	166682-008
DUP080103D	166682-009
BAPSB16[0.3][MSD]	166682-010
BAPSB16[1]	166682-011
DUP080103E	166682-012
BAPSB10[1][MSD]	166682-013
BAPSB10[1]RB[2]	166682-014
BAPSB10[2]	166682-015
BAPSB05[7][MSD]	166682-016
DUP080103F	166682-017
BAPSB05[8.5]	166682-018
BAPSB03R[6.5]	166682-019

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: 
Operations Manager

Date: 8/15/03

Signature: 
Project Manager

Date: 8/14/03

Laboratory Number: **166682**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **08/01/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and eighteen soil samples received from the above referenced project. The samples were received cold and intact.

Metals: Matrix spikes were not performed on sample BAPSB05 [7] [MSD] (166682-016).

The matrix spike recoveries of sample BAPSB10 [1] [MSD] (166628-013) for aluminum, iron, and manganese were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for all other elements except barium, beryllium, copper, and silver were outside acceptance limits. The matrix spike recoveries of sample BAPSB04 [1] [MSD] (166628-007) for zinc were also not meaningful. Additionally, the matrix spike recoveries of sample BAPSB04 [1] [MSD] for antimony, barium, copper, and lead, and of sample BAPSB16 [0.3] [MSD] for antimony and zinc, were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements.

The serial dilution sample analyzed on 8/6/03 at 17:53 was outside acceptance limits for cobalt, lead, nickel, and zinc. The serial dilution sample analyzed on 8/7/03 at 12:47 was outside acceptance limits for cobalt and selenium. The serial dilution sample analyzed on 8/7/03 at 12:54 was outside acceptance limits for lead and nickel. No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY RECORD

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2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

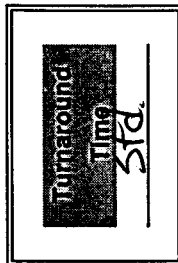
Site Name: Presidio Frings Ranges

Job Number: 2893.07

Project Manager/Contact: Dorinda Shipman

Samplers: RRP/DSS

Recorder (Signature Required): Rhonda Puchart



Job Number:
289307

Project Manager/Contact:
Derinda Shipman

Samplers:
RRE/DSS

Recorder (Signature Required):
Rhonda Kuchard

Analysis Requested

5 metals

19 metals

Turnaround Time
STD

Hold

Silica gel clean-up

Remarks

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative							No. Containers	Analysis Requested	Hold	Remarks				
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice					Other			
-1- BAPS B03C59	8/1/03	1620.		X						1								
-2- BAPS B03C61	8/1/03	1630.		X						1								
-3- BAPS B07C55	8/1/03	1049.		X						1								
-4- BAPS B12 C1	8/1/03	1100.		X						1								
-5- DUP B0103C	8/1/03	1105.		X						1								
-6- BAPS B12 C5	8/1/03	1110.		X						1								
-7- BAPS B04C1	8/1/03	1135.		X						1								
-8- BAPS B04 C3	8/1/03	1140.		X						1								
-9- DUP B0103D	8/1/03	1138.		X						1								
-10- BAPS B1603	8/1/03	1157.		X						1								
-11- BAPS B16 C1	8/1/03	1200.		X						1								
-12- DUP B0103E	8/1/03	1201.		X						1								
-13- BAPS B10C1	8/1/03	1215		X						1								
-14- BAPS B10C1	8/1/03	1218		X						1								
Relinquished by: (Signature) <u>Rhonda Kuchard</u>				Date	8-1-03	Time	1535	Received by: (Signature) <u>Long</u>					Date	8/1/03	Time	1535		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)					Date		Time			
Relinquished by: (Signature)				Date		Time		Received by Lab: (Signature)					Date		Time			
Sent to Laboratory (Name):													Method of Shipment			<input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name) <input type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS		
Laboratory Comments/Notes:																		

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery Street, Suite 1300

San Francisco, California 94111

Phone: 415/955-9040

Fax: 415/955-9041

FAX TRANSMITTALDate: 8/5/03Send to fax # (510) 486-0532To: Steve StanleyFrom: Rhonda RichardsProject name: Presidio Firing RangesProject number: 2893.07Number of pages, including this cover: 3Notes: Hi Steve,

I would like to change several sample
ID's from the 50G's delivered 8/1/03 (PM)
and 8/5/03. The changes are noted on the
attached COCs (#002862 and #002848)
Please confirm the change in an email
to me.

Thanks!This document will also be mailed to you: ☐ Yes ☐ No*Should you encounter any difficulties with this fax, please call 415/955-9040*

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166682

Treadwell & Rollo

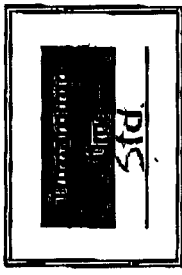
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Page 1 of 1

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☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Piedra Fina Project
Job Number: 1693367
Project Manager/Contact: David Shipman
Samplers: REX/SS
Recorder (Signature Required): Richard



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix				No. Containers & Preservative				Analysis Requested	Hold	Remarks	
				Soil	Water	Other	Time	Soil	H ₂ O	HNO ₃	Other				
BAPS003R(54)	8/1/03	1130													
BAPS003R(16)	8/1/03	1130													
BAPS003R(17)	8/1/03	1049													
BAPS012(1)	8/1/03	1100													
BAPS012(2)	8/1/03	1105													
BAPS012(3)	8/1/03	1110													
BAPS012(4)	8/1/03	1115													
BAPS012(5)	8/1/03	1140													
BAPS012(6)	8/1/03	1138													
BAPS012(7)	8/1/03	1157													
BAPS012(8)	8/1/03	1200													
BAPS012(9)	8/1/03	1201													
BAPS012(10)	8/1/03	1215													
BAPS012(11)	8/1/03	1218													
Relinquished by: (Signature)				Date	8-1-03	Time	1535	Received by: (Signature)				Date	8/1/03	Time	1535
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time	
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time	
Sent to Laboratory (Name):												Method of Shipment: <input type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS			
Laboratory Comments/Notes:												Hand Carried <input type="checkbox"/> Private Courier (Co. Name)			

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: **002848**

Treadwell & Rollo

Environmental and Geotechnical Consultants

555 Montgomery Street, Suite 1300

San Francisco, California 94111

Phone: 415/955-9040

Fax: 415/955-9041

~~FAK~~
#2**FAX TRANSMITTAL**Date: 8/5/03 Send to fax # (510) 486-0532To: Steve StankeyFrom: Rhonda RichardsProject name: Presidio Firing Ranges Project number: 2893.07Number of pages, including this cover: 3Notes: Hi Steve,

I would like to change several sample
ID's from the SOGs delivered 8/1/03 (PM)
and 8/5/03. The changes are noted on the
attached COCs (#002862 and #002848)
Please confirm the change in an email
to me.

Thanks!→ Add Coc #002833This document will also be mailed to you: ☐ Yes ☐ No*Should you encounter any difficulties with this fax, please call 415/955-9040*

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Treadwell & Poffo
Environmental and Geotechnical Consultant

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Page 2 of 2

Presidio Filings Ranches
1893.07

1983.02

t: Doi. nde Shingana
Dac 10/11

1000

STP/105

[illegible][illegible]

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 002833

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166682 Date Received: 8-1-03 Number of Coolers: 1
Client: Treadwell & Rollo Project: 289307

A. Preliminary Examination Phase

Date Opened: 8-1-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO

If YES, enter carrier name and airbill number: _____

2. Were custody seals on outside of cooler?..... YES ☒ NO

How many and where? _____ Seal date: _____ Seal name: _____ N/A

3. Were custody seals unbroken and intact at the date and time of arrival?..... YES ☒ NO

4. Were custody papers dry and intact when received?..... YES ☒ NO

5. Were custody papers filled out properly (ink, signed, etc.)?..... YES ☒ NO

6. Did you sign the custody papers in the appropriate place?..... YES ☒ NO

7. Was project identifiable from custody papers?..... YES ☒ NO

If YES, enter project name at the top of this form.

8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES ☒ NO

Type of ice: wet Temperature: 4.0

B. Login Phase

Date Logged In: 8-4-03 By (print): Troy Windsor (sign) Troy E. Windsor

1. Describe type of packing in cooler: in ziploc bags

2. Did all bottles arrive unbroken?..... YES ☒ NO

3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... YES ☒ NO

4. Did bottle labels agree with custody papers?..... YES ☒ NO

5. Were appropriate containers used for the tests indicated?..... YES ☒ NO

6. Were correct preservatives added to samples?..... YES ☒ NO

7. Was sufficient amount of sample sent for tests indicated?..... YES ☒ NO

8. Were bubbles absent in VOA samples? If NO, list sample IDs below..... YES ☒ NO N/A

9. Was the client contacted concerning this sample delivery?..... YES ☒ NO

If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB10[1]RB[2]	Sampled:	08/01/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03
Batch#:	83412		

Type: SAMPLE Lab ID: 166682-014

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC221217

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83412
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: BS Lab ID: QC221218

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	510.0	102	80-120
Barium	2,000	1,840	92	80-120
Copper	250.0	236.0	94	80-120
Lead	100.0	86.00	86	80-120
Zinc	500.0	426.0	85	80-120

Type: BSD Lab ID: QC221219

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	530.0	106	80-120	4	20
Barium	2,000	1,890	95	80-120	3	20
Copper	250.0	245.0	98	80-120	4	20
Lead	100.0	91.70	92	80-120	6	20
Zinc	500.0	448.0	90	80-120	5	20

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DW073103	Batch#:	83412
MSS Lab ID:	166668-007	Sampled:	07/31/03
Matrix:	Water	Received:	08/01/03
Units:	ug/L	Prepared:	08/04/03
Diln Fac:	1.000	Analyzed:	08/05/03

Type: MS Lab ID: QC221220

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	528.0	106	75-125
Barium	8.700	2,000	1,850	92	75-125
Copper	3.850	250.0	242.0	95	75-125
Lead	17.00	100.0	104.0	87	75-125
Zinc	600.0	500.0	1,000	80	75-125

Type: MSD Lab ID: QC221221

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	526.0	105	75-125	0	20
Barium	2,000	1,850	92	75-125	0	20
Copper	250.0	242.0	95	75-125	0	20
Lead	100.0	104.0	87	75-125	0	20
Zinc	500.0	1,010	82	75-125	1	20

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73312901049	Seqnum : 73312901052
Filename : tr212530	Filename : tr212533
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166668-007	Samplenum: QC221222
Matrix : Water	Matrix : Water
Batchnum : 83412	Batchnum : 83412
Inj : 05-AUG-2003 10:56	Inj : 05-AUG-2003 11:14
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	ND	100	ND	500	--	10	u
Antimony	ND	60.0	ND	300	--	10	u
Arsenic	ND	5.00	ND	25.0	--	10	u
Barium	ND	10.0	ND	50.0	--	10	u
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	6.77	5.00	ND	25.0	--	10	u
Calcium	19800	500	20400	2500	3	10	u
Chromium	ND	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	ND	10.0	ND	50.0	--	10	u
Iron	131	100	ND	500	--	10	u
Lead	17.0	3.00	16.6	15.0	--	10	u
Magnesium	23200	500	23400	2500	1	10	u
Manganese	24.8	10.0	ND	50.0	--	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	ND	20.0	ND	100	--	10	u
Selenium	ND	5.00	ND	25.0	--	10	u
Silver	ND	5.00	ND	25.0	--	10	u
Thallium	ND	5.00	ND	25.0	--	10	u
Vanadium	ND	10.0	ND	50.0	--	10	u
Zinc	600	20.0	615	100	3	10	u
Titanium	ND	10.0	ND	50.0	--	10	u

u=use

Method: 6010B Standard: blank
Run Time: 08/05/03 06:43:00

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	-.003	.002	.012	.005	.005
SDev	.003	.002	.000	.001	.001	.005	.001
%RSD	323.	198.	1.79	63.9	10.0	116.	22.4
#1	-.003	-.000	-.003	.001	.013	.001	.006
#2	.001	.003	-.003	.003	.011	.008	.004
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.031	.016	-.001	.001	-.002	-.011
SDev	.000	.000	.004	.008	.004	.000	.001
%RSD	2.67	1.39	27.7	1000.	396.	17.4	9.49
#1	-.002	-.032	.013	.005	.004	-.003	-.012
#2	-.002	-.031	.019	-.006	-.002	-.002	-.010
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.009	-.004	-.002	.000	.032	.1955	.0007
SDev	.002	.003	.001	.000	.000	.0007	.0001
%RSD	26.1	72.0	50.0	566.	.747	.3375	14.14
#1	.010	-.005	-.001	-.000	.032	.1960	.0007
#2	.007	-.002	-.003	.000	.031	.1951	.0006
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0015	.0012	.003	.345			
SDev	.0018	.0002	.000	.001			
%RSD	122.6	15.71	6.43	.246			
#1	-.0002	.0011	.003	.345			
#2	-.0028	.0013	.003	.344			

Method: 6010B Standard: cst hi
Run Time: 08/05/03 06:49:13

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.33	.483	66.9	7.66	2.73	.549
SDev	.07	.03	.005	.1	.00	.01	.001
%RSD	3.18	2.57	1.13	.104	.045	.353	.094
#1	2.09	1.31	.479	66.9	7.66	2.72	.550
#2	2.18	1.36	.487	67.0	7.67	2.73	.549
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.59	1.37	1.74	1.88	3.33	4.42	.507
SDev	.00	.00	.00	.00	.01	.01	.002
%RSD	.187	.030	.019	.178	.230	.185	.474
#1	1.58	1.37	1.74	1.88	3.32	4.41	.509
#2	1.59	1.37	1.74	1.88	3.33	4.42	.505
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.648	.765	.324	2.19	.376	.4380	.6132
SDev	.003	.003	.003	.00	.001	.0001	.0006
%RSD	.415	.438	.843	.017	.276	.0323	.0999
#1	.649	.762	.326	2.19	.376	.4381	.6127
#2	.646	.767	.322	2.19	.377	.4379	.6136
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2639	.4125	2.07	21.8			
SDev	.0022	.0006	.00	.0			
%RSD	.8216	.1371	.116	.120			
#1	.2655	.4121	2.07	21.8			
#2	.2624	.4129	2.07	21.9			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	466.177	.435099	08/05/03 06:49:13
Sb206A	206.832	Multiple	Standards	735.796	-.858429	08/05/03 06:49:13
As1890	189.042	Multiple	Standards	1031.42	2.71608	08/05/03 06:49:13
Ba4934	493.409	Multiple	Standards	14.9453	-.030887	08/05/03 06:49:13
Be3130	313.042	Multiple	Standards	12.6223	-.148522	08/05/03 06:49:13
Cd2265	226.502	Multiple	Standards	36.7061	-.166401	08/05/03 06:49:13
Cr2677	267.716	Multiple	Standards	367.485	-1.77618	08/05/03 06:49:13
Co2286	228.616	Multiple	Standards	314.795	.556139	08/05/03 06:49:13
Cu3247	324.754	Multiple	Standards	142.448	4.44357	08/05/03 06:49:13
Pb2203	220.351	Multiple	Standards	289.316	-4.58083	08/05/03 06:49:13
Pb220A	220.352	Multiple	Standards	263.472	.201995	08/05/03 06:49:13
Mo2020	202.030	Multiple	Standards	300.752	-.300752	08/05/03 06:49:13
Ni2316	231.604	Multiple	Standards	112.931	.274798	08/05/03 06:49:13
Se1960	196.021	Multiple	Standards	966.158	10.5633	08/05/03 06:49:13
Se196A	196.022	Multiple	Standards	782.009	-6.77741	08/05/03 06:49:13
Ag3280	328.068	Multiple	Standards	130.157	.459890	08/05/03 06:49:13
Tl1908	190.864	Multiple	Standards	1540.32	3.33737	08/05/03 06:49:13
V_2924	292.402	Multiple	Standards	228.504	-.015234	08/05/03 06:49:13
Zn2138	213.856	Multiple	Standards	300.626	-9.48977	08/05/03 06:49:13
Al3082	308.215	Multiple	Standards	4176.87	-816.717	08/05/03 06:49:13
Ca3179	317.933	Multiple	Standards	3265.35	-2.17690	08/05/03 06:49:13
Fe2714	271.441	Multiple	Standards	3928.75	5.89313	08/05/03 06:49:13
Mg2790	279.079	Multiple	Standards	4861.70	-5.83404	08/05/03 06:49:13
Mn2576	257.610	Multiple	Standards	48.4285	-.142057	08/05/03 06:49:13
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/05/03 06:49:13
Ti3349	334.941	Multiple	Standards	46.5198	-16.0369	08/05/03 06:49:13

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 73312901001 Filename : tr212482 Injected : 05-AUG-2003 07:01
Caltype :
Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	996.8000	ug/L	0	5	
Antimony	1000.000	978.0000	ug/L	-2	5	
Arsenic	500.0000	494.0000	ug/L	-1	5	
Barium	1000.000	999.0000	ug/L	0	5	
Beryllium	100.0000	99.60000	ug/L	0	5	
Cadmium	100.0000	99.70000	ug/L	0	5	
Calcium	2000.000	1993.000	ug/L	0	5	
Chromium	200.0000	199.0000	ug/L	-1	5	
Cobalt	500.0000	499.0000	ug/L	0	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	997.3000	ug/L	0	5	
Lead	500.0000	499.0000	ug/L	0	5	
Magnesium	2000.000	1995.000	ug/L	0	5	
Manganese	100.0000	99.50000	ug/L	-1	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	499.0000	ug/L	0	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	497.0000	ug/L	-1	5	
Titanium	1000.000	998.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	99.60000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901002

```
Run Name :
Filename : tr212483
```

Injected : 05-AUG-2003 07:05
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	500.0000	502.9000	ug/L	1	10
Antimony	500.0000	506.0000	ug/L	1	10
Arsenic	250.0000	260.0000	ug/L	4	10
Barium	500.0000	500.0000	ug/L	0	10
Beryllium	50.00000	52.70000	ug/L	5	10
Cadmium	50.00000	50.60000	ug/L	1	10
Calcium	1000.000	1043.000	ug/L	4	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	255.0000	ug/L	2	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	534.4000	ug/L	7	10
Lead	250.0000	256.0000	ug/L	2	10
Magnesium	1000.000	1065.000	ug/L	7	10
Manganese	50.00000	51.40000	ug/L	3	10
Molybdenum	500.0000	511.0000	ug/L	2	10
Nickel	250.0000	259.0000	ug/L	4	10
Selenium	250.0000	254.0000	ug/L	2	10
Silver	50.00000	51.40000	ug/L	3	10
Thallium	250.0000	254.0000	ug/L	2	10
Titanium	500.0000	520.0000	ug/L	4	10
Vanadium	250.0000	254.0000	ug/L	2	10
Zinc	50.00000	51.00000	ug/L	2	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD

Curtis & Tompkins Laboratories

```
Run Name :
Filename : tr212485
```

Injected : 05-AUG-2003 07:14

Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	106.9000	ug/L	7	50
Antimony	60.00000	72.60000	ug/L	21	50
Arsenic	5.000000	5.660000	ug/L	13	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	1.970000	ug/L	-2	50
Cadmium	5.000000	4.970000	ug/L	-1	50
Chromium	10.00000	8.890000	ug/L	-11	50
Cobalt	20.00000	20.10000	ug/L	1	50
Copper	10.00000	10.20000	ug/L	2	50
Iron	100.0000	102.6000	ug/L	3	50
Lead	3.000000	1.550000	ug/L	-48	50
Manganese	10.00000	9.990000	ug/L	0	50
Molybdenum	20.00000	19.50000	ug/L	-3	50
Nickel	20.00000	21.00000	ug/L	5	50
Selenium	5.000000	5.500000	ug/L	10	50
Silver	5.000000	5.140000	ug/L	3	50
Thallium	5.000000	6.150000	ug/L	23	50
Vanadium	10.00000	10.50000	ug/L	5	50
Zinc	20.00000	21.40000	ug/L	7	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901014

Run Name :
Filename : tr212495

Injected : 05-AUG-2003 08:10
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	509.1000	ug/L	2		10	
Antimony		500.0000	494.0000	ug/L	-1		10	
Arsenic		250.0000	261.0000	ug/L	4		10	
Barium		500.0000	498.0000	ug/L	0		10	
Beryllium		50.00000	51.90000	ug/L	4		10	
Cadmium		50.00000	50.40000	ug/L	1		10	
Calcium		1000.000	1013.000	ug/L	1		10	
Chromium		100.0000	102.0000	ug/L	2		10	
Cobalt		250.0000	253.0000	ug/L	1		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	529.2000	ug/L	6		10	
Lead		250.0000	256.0000	ug/L	2		10	
Magnesium		1000.000	1037.000	ug/L	4		10	
Manganese		50.00000	50.70000	ug/L	1		10	
Molybdenum		500.0000	506.0000	ug/L	1		10	
Nickel		250.0000	257.0000	ug/L	3		10	
Selenium		250.0000	252.0000	ug/L	1		10	
Silver		50.00000	52.40000	ug/L	5		10	
Thallium		250.0000	248.0000	ug/L	-1		10	
Titanium		500.0000	512.0000	ug/L	2		10	
Vanadium		250.0000	252.0000	ug/L	1		10	
Zinc		50.00000	50.60000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901026

Run Name :
Filename : tr212507

Injected : 05-AUG-2003 09:02
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	768.8000	ug/L	3	10	
Antimony		750.0000	770.0000	ug/L	3	10	
Arsenic		375.0000	386.0000	ug/L	3	10	
Barium		750.0000	733.0000	ug/L	-2	10	
Beryllium		75.00000	74.80000	ug/L	0	10	
Cadmium		75.00000	71.80000	ug/L	-4	10	
Calcium		1500.000	1510.000	ug/L	1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	772.5000	ug/L	3	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	369.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	68.30000	ug/L	-9	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	72.10000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901038

Run Name :
Filename : tr212519

Injected : 05-AUG-2003 10:06
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	518.2000	ug/L	4	10	
Antimony		500.0000	480.0000	ug/L	-4	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	47.20000	ug/L	-6	10	
Calcium		1000.000	1002.000	ug/L	0	10	
Chromium		100.0000	97.80000	ug/L	-2	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	526.2000	ug/L	5	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	50.00000	ug/L	0	10	
Molybdenum		500.0000	474.0000	ug/L	-5	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	51.40000	ug/L	3	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901050

Run Name :
Filename : tr212531

Injected : 05-AUG-2003 11:01
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	757.1000	ug/L	1	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	71.00000	ug/L	-5	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	715.2000	ug/L	-5	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	69.90000	ug/L	-7	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901061

Run Name :
Filename : tr212542

Injected : 05-AUG-2003 11:47
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	515.8000	ug/L	3	10	
Antimony		500.0000	487.0000	ug/L	-3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	479.4000	ug/L	-4	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	490.0000	ug/L	-2	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	53.60000	ug/L	7	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	47.80000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901072

Run Name :
Filename : tr212553

Injected : 05-AUG-2003 12:30
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	760.0000	ug/L	1	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	75.10000	ug/L	0	10	
Cadmium		75.00000	69.70000	ug/L	-7	10	
Calcium		1500.000	1490.000	ug/L	-1	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	360.0000	ug/L	-4	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	718.2000	ug/L	-4	10	
Lead		375.0000	357.0000	ug/L	-5	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	73.20000	ug/L	-2	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	364.0000	ug/L	-3	10	
Selenium		375.0000	362.0000	ug/L	-3	10	
Silver		75.00000	69.60000	ug/L	-7	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	71.00000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901084

Run Name :
Filename : tr212565

Injected : 05-AUG-2003 13:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	508.0000	ug/L	2	10	
Antimony		500.0000	501.0000	ug/L	0	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	50.60000	ug/L	1	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	1001.000	ug/L	0	10	
Chromium		100.0000	99.80000	ug/L	0	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	524.8000	ug/L	5	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1013.000	ug/L	1	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	53.40000	ug/L	7	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	49.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901095

Run Name :
Filename : tr212576

Injected : 05-AUG-2003 14:19
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		250.0000	250.9000	ug/L	0	10	
Antimony		250.0000	243.0000	ug/L	-3	10	
Arsenic		125.0000	132.0000	ug/L	6	10	
Barium		250.0000	251.0000	ug/L	0	10	
Beryllium		25.00000	26.10000	ug/L	4	10	
Cadmium		25.00000	25.80000	ug/L	3	10	
Calcium		500.0000	528.8000	ug/L	6	10	
Chromium		50.00000	50.60000	ug/L	1	10	
Cobalt		125.0000	128.0000	ug/L	2	10	
Copper		50.00000	52.40000	ug/L	5	10	
Iron		250.0000	247.4000	ug/L	-1	10	
Lead		125.0000	128.0000	ug/L	2	10	
Magnesium		500.0000	532.3000	ug/L	6	10	
Manganese		25.00000	25.50000	ug/L	2	10	
Molybdenum		250.0000	256.0000	ug/L	2	10	
Nickel		125.0000	131.0000	ug/L	5	10	
Selenium		125.0000	129.0000	ug/L	3	10	
Silver		25.00000	27.50000	ug/L	10	10	
Thallium		125.0000	126.0000	ug/L	1	10	
Titanium		250.0000	261.0000	ug/L	4	10	
Vanadium		125.0000	128.0000	ug/L	2	10	
Zinc		25.00000	26.50000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901107

Run Name :
Filename : tr212588

Injected : 05-AUG-2003 15:10
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	773.8000	ug/L	3	10	
Antimony		750.0000	733.0000	ug/L	-2	10	
Arsenic		375.0000	400.0000	ug/L	7	10	
Barium		750.0000	748.0000	ug/L	0	10	
Beryllium		75.00000	79.70000	ug/L	6	10	
Cadmium		75.00000	78.60000	ug/L	5	10	
Calcium		1500.000	1540.000	ug/L	3	10	
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	385.0000	ug/L	3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	840.1000	ug/L	12	10	1 ***
Lead		375.0000	386.0000	ug/L	3	10	
Magnesium		1500.000	1585.000	ug/L	6	10	
Manganese		75.00000	76.80000	ug/L	2	10	
Molybdenum		750.0000	763.0000	ug/L	2	10	
Nickel		375.0000	396.0000	ug/L	6	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	70.20000	ug/L	-6	10	
Thallium		375.0000	380.0000	ug/L	1	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901119

Run Name :
Filename : tr212600

Injected : 05-AUG-2003 15:58
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	479.8000	ug/L	-4	10	
Antimony		500.0000	472.0000	ug/L	-6	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	1008.000	ug/L	1	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	500.2000	ug/L	0	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	53.10000	ug/L	6	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	49.70000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901130

Run Name :
Filename : tr212611

Injected : 05-AUG-2003 16:44
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	709.3000	ug/L	-5	10	
Antimony		750.0000	729.0000	ug/L	-3	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	75.50000	ug/L	1	10	
Calcium		1500.000	1445.000	ug/L	-4	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	736.3000	ug/L	-2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1502.000	ug/L	0	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	383.0000	ug/L	2	10	
Silver		75.00000	71.30000	ug/L	-5	10	
Thallium		375.0000	374.0000	ug/L	0	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.70000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901137

Run Name :
Filename : tr212618

Injected : 05-AUG-2003 17:16
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	763.4000	ug/L	2	10	
Antimony		750.0000	741.0000	ug/L	-1	10	
Arsenic		375.0000	389.0000	ug/L	4	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	76.30000	ug/L	2	10	
Cadmium		75.00000	75.30000	ug/L	0	10	
Calcium		1500.000	1505.000	ug/L	0	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	752.6000	ug/L	0	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1561.000	ug/L	4	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901003
Filename: tr212484

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 05-AUG-2003 07:10

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[15.100]	60.00000	ug/L	<RL
Arsenic	[1.2700]	5.000000	ug/L	<RL
Barium	[0.1320]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[0.4347]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[0.1980]	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.0400]	20.00000	ug/L	<RL
Nickel	[0.3850]	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.3240]	10.00000	ug/L	<RL
Vanadium	[0.2100]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901015
Filename: tr212496

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 08:15

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<RL	
Antimony	[9.3500]	60.00000	ug/L	<RL		
Arsenic		ND	5.000000	ug/L	<RL	
Barium	[0.0960]	10.00000	ug/L	<RL		
Beryllium	[0.1410]	2.000000	ug/L	<RL		
Cadmium		ND	5.000000	ug/L	<RL	
Calcium	[3.3760]	500.0000	ug/L	<RL		
Chromium		ND	10.00000	ug/L	<RL	
Cobalt		ND	10.00000	ug/L	<RL	
Copper	[0.0450]	10.00000	ug/L	<RL		
Iron	[6.4310]	100.0000	ug/L	<RL		
Lead		ND	3.000000	ug/L	<RL	
Magnesium	[4.5380]	500.0000	ug/L	<RL		
Manganese	[0.1840]	10.00000	ug/L	<RL		
Molybdenum	[3.4000]	20.00000	ug/L	<RL		
Nickel		ND	20.00000	ug/L	<RL	
Selenium	[1.4000]	5.000000	ug/L	<RL		
Silver		ND	5.000000	ug/L	<RL	
Thallium		ND	5.000000	ug/L	<RL	
Titanium	[2.2900]	10.00000	ug/L	<RL		
Vanadium		ND	10.00000	ug/L	<RL	
Zinc	[0.9740]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901027
Filename: tr212508

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 09:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[12.900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1440]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0140]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.2530]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[2.8700]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.3900]	10.00000	ug/L	<RL		
Vanadium	[0.1850]	10.00000	ug/L	<RL		
Zinc	[0.4080]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901039
Filename: tr212520

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 10:11

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[11.000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1460]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.6880]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0400]	10.00000	ug/L	<RL	
Copper	[0.5540]	10.00000	ug/L	<RL	
Iron	[4.5240]	100.0000	ug/L	<RL	
Lead	[0.6000]	3.000000	ug/L	<RL	
Magnesium	[3.0720]	500.0000	ug/L	<RL	
Manganese	[0.1310]	10.00000	ug/L	<RL	
Molybdenum	[4.2100]	20.00000	ug/L	<RL	
Nickel	[0.2460]	20.00000	ug/L	<RL	
Selenium	[0.3620]	5.000000	ug/L	<RL	
Silver	[0.3350]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.3100]	10.00000	ug/L	<RL	
Vanadium	[0.2040]	10.00000	ug/L	<RL	
Zinc	[0.1590]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901051
Filename: tr212532

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[15.800]	60.00000	ug/L	<RL	
Arsenic	[1.6300]	5.000000	ug/L	<RL	
Barium	[0.2940]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0210]	5.000000	ug/L	<RL	
Calcium	[2.1500]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2390]	10.00000	ug/L	<RL	
Copper	[0.6250]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[1.9960]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[9.2400]	20.00000	ug/L	<RL	
Nickel	[0.4890]	20.00000	ug/L	<RL	
Selenium	[0.9670]	5.000000	ug/L	<RL	
Silver	[0.3220]	5.000000	ug/L	<RL	
Thallium	[0.4480]	5.000000	ug/L	<RL	
Titanium	[1.6500]	10.00000	ug/L	<RL	
Vanadium	[0.3540]	10.00000	ug/L	<RL	
Zinc	[0.3670]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901062
Filename: tr212543

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 11:53

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[4.5100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.2190]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[11.680]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.7730]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.0200]	3.000000	ug/L	<RL	
Magnesium	[8.9070]	500.0000	ug/L	<RL	
Manganese	[0.1150]	10.00000	ug/L	<RL	
Molybdenum	[2.7700]	20.00000	ug/L	<RL	
Nickel	[0.1340]	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	[0.2500]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.2800]	10.00000	ug/L	<RL	
Vanadium	[0.0480]	10.00000	ug/L	<RL	
Zinc	[0.1220]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901073
Filename: tr212554

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 12:37

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[25.400]	60.00000	ug/L	<	RL
Arsenic	[0.1590]	5.000000	ug/L	<	RL
Barium	[0.4410]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.2170]	5.000000	ug/L	<	RL
Calcium	[3.1740]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.2390]	10.00000	ug/L	<	RL
Copper	[0.5920]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[0.8530]	3.000000	ug/L	<	RL
Magnesium	[2.4570]	500.0000	ug/L	<	RL
Manganese	[0.0490]	10.00000	ug/L	<	RL
Molybdenum	[15.200]	20.00000	ug/L	<	RL
Nickel	[0.5330]	20.00000	ug/L	<	RL
Selenium	[0.7730]	5.000000	ug/L	<	RL
Silver	[0.2720]	5.000000	ug/L	<	RL
Thallium	[1.5800]	5.000000	ug/L	<	RL
Titanium	[2.1000]	10.00000	ug/L	<	RL
Vanadium	[0.5000]	10.00000	ug/L	<	RL
Zinc	[0.2710]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901085
Filename: tr212566

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 13:26

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.4520]	100.0000	ug/L	<RL		
Antimony	[54.900]	60.00000	ug/L	<RL		
Arsenic	[0.5140]	5.000000	ug/L	<RL		
Barium	[0.3290]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1470]	5.000000	ug/L	<RL		
Calcium	[4.0820]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.3140]	10.00000	ug/L	<RL		
Copper	[0.5920]	10.00000	ug/L	<RL		
Iron	[4.1220]	100.0000	ug/L	<RL		
Lead	[0.5740]	3.000000	ug/L	<RL		
Magnesium	[1.7580]	500.0000	ug/L	<RL		
Manganese	[0.1830]	10.00000	ug/L	<RL		
Molybdenum	[9.4100]	20.00000	ug/L	<RL		
Nickel	[0.3260]	20.00000	ug/L	<RL		
Selenium	[0.7070]	5.000000	ug/L	<RL		
Silver	[0.2560]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.5900]	10.00000	ug/L	<RL		
Vanadium	[0.2610]	10.00000	ug/L	<RL		
Zinc	[0.0860]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901096
Filename: tr212577

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 14:26

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[0.8580]	60.00000	ug/L	<RL		
Arsenic	[1.2100]	5.000000	ug/L	<RL		
Barium	[0.1050]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0680]	5.000000	ug/L	<RL		
Calcium	[3.4510]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.1990]	10.00000	ug/L	<RL		
Copper	[0.3480]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.4930]	3.000000	ug/L	<RL		
Magnesium	[0.1587]	500.0000	ug/L	<RL		
Manganese	[0.0390]	10.00000	ug/L	<RL		
Molybdenum	[1.5800]	20.00000	ug/L	<RL		
Nickel	[0.1020]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.3510]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[0.8350]	10.00000	ug/L	<RL		
Vanadium	[0.1610]	10.00000	ug/L	<RL		
Zinc	[0.3900]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901108
Filename: tr212589

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 15:14

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[7.7010]	100.0000	ug/L	<RL	
Antimony	[3.6200]	60.00000	ug/L	<RL	
Arsenic	[0.4480]	5.000000	ug/L	<RL	
Barium	[0.3490]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0190]	5.000000	ug/L	<RL	
Calcium	[8.1660]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1460]	10.00000	ug/L	<RL	
Copper	[0.4490]	10.00000	ug/L	<RL	
Iron	[18.540]	100.0000	ug/L	<RL	
Lead	[0.4120]	3.000000	ug/L	<RL	
Magnesium	[5.4330]	500.0000	ug/L	<RL	
Manganese	[0.4060]	10.00000	ug/L	<RL	
Molybdenum	[4.3600]	20.00000	ug/L	<RL	
Nickel	[0.3900]	20.00000	ug/L	<RL	
Selenium	[0.4000]	5.000000	ug/L	<RL	
Silver	[0.1600]	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.6300]	10.00000	ug/L	<RL	
Vanadium	[0.2060]	10.00000	ug/L	<RL	
Zinc	[0.4070]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901120
Filename: tr212601

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.0720]	100.0000	ug/L	<RL		
Antimony	[20.000]	60.00000	ug/L	<RL		
Arsenic	[1.8300]	5.000000	ug/L	<RL		
Barium	[0.2790]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[7.7450]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.1570]	10.00000	ug/L	<RL		
Copper	[0.5010]	10.00000	ug/L	<RL		
Iron	[10.330]	100.0000	ug/L	<RL		
Lead	[0.4520]	3.000000	ug/L	<RL		
Magnesium	[3.9950]	500.0000	ug/L	<RL		
Manganese	[0.2930]	10.00000	ug/L	<RL		
Molybdenum	[4.8200]	20.00000	ug/L	<RL		
Nickel	[0.3710]	20.00000	ug/L	<RL		
Selenium	[1.2700]	5.000000	ug/L	<RL		
Silver	[0.5460]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.4200]	10.00000	ug/L	<RL		
Vanadium	[0.3080]	10.00000	ug/L	<RL		
Zinc	[0.4170]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901131
Filename: tr212612

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 16:51

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[0.7529]	100.0000	ug/L	<	RL
Antimony	[49.100]	60.00000	ug/L	<	RL
Arsenic	[0.2380]	5.000000	ug/L	<	RL
Barium	[0.3710]	10.00000	ug/L	<	RL
Beryllium	[0.1250]	2.000000	ug/L	<	RL
Cadmium	[0.0010]	5.000000	ug/L	<	RL
Calcium	[3.3490]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.0840]	10.00000	ug/L	<	RL
Copper	[0.2190]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[0.2580]	3.000000	ug/L	<	RL
Magnesium	[2.3960]	500.0000	ug/L	<	RL
Manganese	[0.0810]	10.00000	ug/L	<	RL
Molybdenum	[8.5700]	20.00000	ug/L	<	RL
Nickel	[0.4710]	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.9600]	10.00000	ug/L	<	RL
Vanadium	[0.3200]	10.00000	ug/L	<	RL
Zinc	[0.1880]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73312901138
Filename: tr212619

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 05-AUG-2003 17:21

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[2.3430]	100.0000	ug/L	<RL		
Antimony	[7.5200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1900]	10.00000	ug/L	<RL		
Beryllium	[0.0720]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[12.870]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[0.2390]	10.00000	ug/L	<RL		
Iron	[2.0160]	100.0000	ug/L	<RL		
Lead	[0.1900]	3.000000	ug/L	<RL		
Magnesium	[13.100]	500.0000	ug/L	<RL		
Manganese	[0.1050]	10.00000	ug/L	<RL		
Molybdenum	[3.3000]	20.00000	ug/L	<RL		
Nickel	[0.2120]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	[0.4790]	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.4500]	10.00000	ug/L	<RL		
Vanadium	[0.1040]	10.00000	ug/L	<RL		
Zinc	[0.0970]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 73312901005

Run Name :
Filename : tr212486

Injected : 05-AUG-2003 07:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	474000.0	ug/L	-5		
Antimony	500.0000	458.0000	ug/L	-8	20	
Arsenic	500.0000	494.0000	ug/L	-1	20	
Barium	500.0000	454.0000	ug/L	-9	20	
Beryllium	500.0000	437.0000	ug/L	-13	20	
Cadmium	1000.000	847.0000	ug/L	-15	20	
Calcium	500000.0	378900.0	ug/L	-24		
Chromium	500.0000	424.0000	ug/L	-15	20	
Cobalt	500.0000	420.0000	ug/L	-16	20	
Copper	500.0000	487.0000	ug/L	-3	20	
Iron	200000.0	168400.0	ug/L	-16		
Lead	1000.000	917.0000	ug/L	-8	20	
Magnesium	500000.0	471000.0	ug/L	-6		
Manganese	500.0000	434.0000	ug/L	-13	20	
Molybdenum	500.0000	430.0000	ug/L	-14	20	
Nickel	1000.000	915.0000	ug/L	-9	20	
Selenium	500.0000	471.0000	ug/L	-6	20	
Silver	1000.000	1010.000	ug/L	1	20	
Thallium	500.0000	430.0000	ug/L	-14	20	
Titanium	20000.00	1820.000	ug/L	-91		
Vanadium	500.0000	444.0000	ug/L	-11	20	
Zinc	1000.000	914.0000	ug/L	-9	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73312901136

Run Name :
Filename : tr212617

Injected : 05-AUG-2003 17:10
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	444600.0	ug/L	-11			
Antimony	500.0000	436.0000	ug/L	-13		20	
Arsenic	500.0000	500.0000	ug/L	0		20	
Barium	500.0000	452.0000	ug/L	-10		20	
Beryllium	500.0000	434.0000	ug/L	-13		20	
Cadmium	1000.000	865.0000	ug/L	-14		20	
Calcium	500000.0	364100.0	ug/L	-27			
Chromium	500.0000	420.0000	ug/L	-16		20	
Cobalt	500.0000	418.0000	ug/L	-16		20	
Copper	500.0000	473.0000	ug/L	-5		20	
Iron	200000.0	161700.0	ug/L	-19			
Lead	1000.000	920.0000	ug/L	-8		20	
Magnesium	500000.0	463700.0	ug/L	-7			
Manganese	500.0000	422.0000	ug/L	-16		20	
Molybdenum	500.0000	426.0000	ug/L	-15		20	
Nickel	1000.000	919.0000	ug/L	-8		20	
Selenium	500.0000	476.0000	ug/L	-5		20	
Silver	1000.000	1060.000	ug/L	6		20	
Thallium	500.0000	432.0000	ug/L	-14		20	
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	438.0000	ug/L	-12		20	
Zinc	1000.000	925.0000	ug/L	-8		20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73312901

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212482 CS		05-AUG-2003 07:01	1.0	1.0		1	
002	tr212483 ICV		05-AUG-2003 07:05	1.0	1.0		2	
003	tr212484 ICB		05-AUG-2003 07:10	1.0	1.0		3	
004	tr212485 CRI		05-AUG-2003 07:14	1.0	1.0		4	4:AL=474000
005	tr212486 ICSAB		05-AUG-2003 07:18	1.0	1.0			
006	tr212487 BLANK	QC221068	05-AUG-2003 07:27	1.0	50.0			
007	tr212488 BS	QC221069	05-AUG-2003 07:32	1.0	50.0			
008	tr212489 BSD	QC221070	05-AUG-2003 07:36	1.0	50.0			
009	tr212490 MSS	166624-027	05-AUG-2003 07:41	1.0	43.29004	4		3:FE=364800
010	tr212491 SER	QC221073	05-AUG-2003 07:50	5.0	43.29004			
011	tr212492 MS	QC221071	05-AUG-2003 07:54	1.0	41.66667			3:FE=380300
012	tr212493 MSD	QC221072	05-AUG-2003 07:58	1.0	40.0	2		3:FE=344800
013	tr212494 PDS	QC221075	05-AUG-2003 08:02	1.0	43.29004		5 6	3:FE=372300
014	tr212495 CCV		05-AUG-2003 08:10	1.0	1.0		7	
015	tr212496 CCB		05-AUG-2003 08:15	1.0	1.0			
016	tr212497 SAMPLE	166624-002	05-AUG-2003 08:19	1.0	46.51163			1:FE=148800
017	tr212498 SAMPLE	166624-003	05-AUG-2003 08:23	1.0	47.61905			2:FE=257400
018	tr212499 SAMPLE	166624-004	05-AUG-2003 08:27	1.0	42.19409			3:FE=258600
019	tr212500 SAMPLE	166624-005	05-AUG-2003 08:31	1.0	49.75124			2:FE=225500
020	tr212501 SAMPLE	166624-006	05-AUG-2003 08:35	1.0	39.84064	1		4:FE=254100
021	tr212502 SAMPLE	166624-007	05-AUG-2003 08:39	1.0	38.31418			3:FE=253000
022	tr212503 SAMPLE	166624-006	05-AUG-2003 08:43	10.0	39.84064			
023	tr212504 SAMPLE	166624-001	05-AUG-2003 08:47	1.0	49.01961			1:FE=171200
024	tr212505 SAMPLE	166624-008	05-AUG-2003 08:51	1.0	44.05286			2:FE=241700
025	tr212506 SAMPLE	166624-009	05-AUG-2003 08:55	1.0	45.87156			2:FE=188600
026	tr212507 CCV		05-AUG-2003 09:02	1.0	1.0		8	
027	tr212508 CCB		05-AUG-2003 09:12	1.0	1.0			
028	tr212509 SAMPLE	166543-002	05-AUG-2003 09:19	1.0	1.0			
029	tr212510 SAMPLE	166543-004	05-AUG-2003 09:23	1.0	1.0			
030	tr212511 SAMPLE	166543-006	05-AUG-2003 09:26	1.0	1.0			
031	tr212512 SAMPLE	166543-008	05-AUG-2003 09:30	1.0	1.0			
032	tr212513 SAMPLE	166624-012	05-AUG-2003 09:35	1.0	44.44444			2:FE=175100

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Meow Date: 8/15

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73312901

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr212514	SAMPLE	166646-027	83388	Soil	05-AUG-2003 09:40	10.0	43.10345						
034	tr212515	SAMPLE	166624-013	83375	Soil	05-AUG-2003 09:43	1.0	37.31343						2:FE=269100
035	tr212516	SAMPLE	166624-015	83375	Soil	05-AUG-2003 09:47	1.0	41.15226						3:FE=213500
036	tr212517	SAMPLE	166624-014	83375	Soil	05-AUG-2003 09:55	1.0	44.84305						2:FE=198000
037	tr212518	SAMPLE	166624-016	83375	Soil	05-AUG-2003 09:59	1.0	48.78049						2:FE=217600
038	tr212519	CCV				05-AUG-2003 10:06	1.0	1.0				7		
039	tr212520	CCB				05-AUG-2003 10:11	1.0	1.0						
040	tr212521	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:15	1.0	44.84305	1					3:FE=232200
041	tr212522	SAMPLE	166624-018	83375	Soil	05-AUG-2003 10:19	1.0	49.50495						2:FE=186900
042	tr212523	SAMPLE	166624-019	83375	Soil	05-AUG-2003 10:23	1.0	44.64286						2:FE=166700
043	tr212524	SAMPLE	166624-021	83375	Soil	05-AUG-2003 10:27	1.0	41.66667						2:FE=178000
044	tr212525	SAMPLE	166624-023	83375	Soil	05-AUG-2003 10:31	1.0	43.85965						3:FE=355800
045	tr212526	SAMPLE	166624-017	83375	Soil	05-AUG-2003 10:35	10.0	44.84305						
046	tr212527	BLANK	QC221217		Water	05-AUG-2003 10:43	1.0	1.0						
047	tr212528	BS	QC221218		Water	05-AUG-2003 10:47	1.0	1.0						
048	tr212529	BSD	QC221219		Water	05-AUG-2003 10:50	1.0	1.0						
049	tr212530	MSS	166668-007		Water	05-AUG-2003 10:56	1.0	1.0						
050	tr212531	CCV				05-AUG-2003 11:01	1.0	1.0				8		
051	tr212532	CCB				05-AUG-2003 11:10	1.0	1.0						
052	tr212533	SER	QC221222		Water	05-AUG-2003 11:14	5.0	1.0						
053	tr212534	MS	QC221220		Water	05-AUG-2003 11:18	1.0	1.0	2					
054	tr212535	MS	QC221220		Water	05-AUG-2003 11:22	1.0	1.0						
055	tr212536	MSD	QC221221		Water	05-AUG-2003 11:25	1.0	1.0						
056	tr212537	SAMPLE	166680-001		Water	05-AUG-2003 11:30	1.0	1.0						2:CA=154000
057	tr212538	SAMPLE	166680-002		Water	05-AUG-2003 11:33	1.0	1.0						
058	tr212539	SAMPLE	166681-001		Water	05-AUG-2003 11:37	1.0	1.0						2:CA=203100
059	tr212540	SAMPLE	166680-003		Water	05-AUG-2003 11:40	1.0	1.0						
060	tr212541	SAMPLE	166668-010		Water	05-AUG-2003 11:43	1.0	1.0						
061	tr212542	CCV				05-AUG-2003 11:47	1.0	1.0				7		
062	tr212543	CCB				05-AUG-2003 11:53	1.0	1.0						
063	tr212544	SAMPLE	166673-001		Water	05-AUG-2003 11:57	1.0	1.0						
064	tr212545	SAMPLE	166682-014		Water	05-AUG-2003 12:01	1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Meru Date: 8/16/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

Sequence: 73312901 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212546	BLANK	QC221240	83420	Water	05-AUG-2003	12:04	1.0						
066	tr212547	BS	QC221241	83420	Water	05-AUG-2003	12:08	1.0						
067	tr212548	BSD	QC221242	83420	Water	05-AUG-2003	12:11	1.0						
068	tr212549	MSS	166702-001	83420	Water	05-AUG-2003	12:16	1.0						
069	tr212550	MS	QC221243	83420	Water	05-AUG-2003	12:19	1.0						
070	tr212551	MSD	QC221244	83420	Water	05-AUG-2003	12:22	1.0						
071	tr212552	SAMPLE	166702-010	83420	Water	05-AUG-2003	12:26	1.0						
072	tr212553	CCV				05-AUG-2003	12:30	1.0					8	
073	tr212554	CCB				05-AUG-2003	12:37	1.0						
074	tr212555	BLANK	QC221255	83422	Soil	05-AUG-2003	12:41	1.0						
075	tr212556	BS	QC221256	83422	Soil	05-AUG-2003	12:44	1.0						
076	tr212557	BSD	QC221257	83422	Soil	05-AUG-2003	12:48	1.0						
077	tr212558	MSS	166645-031	83422	Soil	05-AUG-2003	12:51	1.0						1:FE=152400
078	tr212559	SER	QC221260	83422	Soil	05-AUG-2003	12:55	5.0						
079	tr212560	MS	QC221258	83422	Soil	05-AUG-2003	12:59	1.0						2:FE=177200
080	tr212561	MSD	QC221259	83422	Soil	05-AUG-2003	13:02	1.0						2:FE=167600
081	tr212562	SAMPLE	166702-002	83422	Soil	05-AUG-2003	13:06	1.0						3:FE=294600
082	tr212563	SAMPLE	166702-003	83422	Soil	05-AUG-2003	13:09	1.0						2:FE=276700
083	tr212564	SAMPLE	166702-004	83422	Soil	05-AUG-2003	13:13	1.0						3:FE=420600
084	tr212565	CCV				05-AUG-2003	13:20	1.0					7	
085	tr212566	CCB				05-AUG-2003	13:26	1.0						
086	tr212567	SAMPLE	166702-005	83422	Soil	05-AUG-2003	13:30	1.0						3:FE=621500
087	tr212568	SAMPLE	166702-006	83422	Soil	05-AUG-2003	13:34	1.0						3:FE=296200
088	tr212569	SAMPLE	166702-007	83422	Soil	05-AUG-2003	13:37	1.0						3:FE=321800
089	tr212570	SAMPLE	166702-008	83422	Soil	05-AUG-2003	13:41	1.0						4:FE=371500
090	tr212571	SAMPLE	166702-009	83422	Soil	05-AUG-2003	13:44	1.0						3:FE=375000
091	tr212572	SAMPLE	166702-011	83422	Soil	05-AUG-2003	13:47	1.0						4:FE=459700
092	tr212573	SAMPLE	166544-004	83173	Water	05-AUG-2003	13:51	1.0						2:CA=499600
093	tr212574	SAMPLE	166544-008	83173	Water	05-AUG-2003	13:55	1.0						
094	tr212575	BLANK	QC221075	83377	Soil	05-AUG-2003	14:00	1.0						
095	tr212576	CCV				05-AUG-2003	14:19	1.0					9	
096	tr212577	CCB				05-AUG-2003	14:26	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Me. W. Date: 8/17/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 05-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73312901

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
097	tr212578 BS	QC221076	83377 Soil	05-AUG-2003 14:33 1.0	50.0	1		
098	tr212579 BSD	QC221077	83377 Soil	05-AUG-2003 14:37 1.0	50.0	1		
099	tr212580 MSS	166624-032	83377 Soil	05-AUG-2003 14:40 1.0	48.07692	1		1:FE=180100
100	tr212581 SER	QC221080	83377 Soil	05-AUG-2003 14:44 5.0	48.07692			
101	tr212582 MS	QC221078	83377 Soil	05-AUG-2003 14:47 1.0	37.87879			
102	tr212583 MSD	QC221079	83377 Soil	05-AUG-2003 14:51 1.0	42.19409			3:FE=228500
103	tr212584 MSS	166624-043	83377 Soil	05-AUG-2003 14:54 1.0	49.75124	3		2:FE=211000
104	tr212585 MS	QC221081	83377 Soil	05-AUG-2003 14:58 1.0	41.49378			2:FE=194900
105	tr212586 MSD	QC221082	83377 Soil	05-AUG-2003 15:01 1.0	43.29004			3:FE=256800
106	tr212587 SAMPLE	166624-024	83377 Soil	05-AUG-2003 15:05 1.0	38.46154			3:FE=229800
107	tr212588 CCV			05-AUG-2003 15:10 1.0	1.0	1	8	3:FE=490700
108	tr212589 CCB			05-AUG-2003 15:14 1.0	1.0			
109	tr212590 SAMPLE	166624-025	83377 Soil	05-AUG-2003 15:18 1.0	48.78049			2:FE=189800
110	tr212591 SAMPLE	166624-026	83377 Soil	05-AUG-2003 15:22 1.0	46.51163			2:FE=299600
111	tr212592 SAMPLE	166624-028	83377 Soil	05-AUG-2003 15:25 1.0	43.29004			2:FE=209800
112	tr212593 SAMPLE	166624-029	83377 Soil	05-AUG-2003 15:29 1.0	46.72897			1:FE=236600
113	tr212594 SAMPLE	166624-033	83377 Soil	05-AUG-2003 15:32 1.0	39.06250			2:FE=255800
114	tr212595 SAMPLE	166624-034	83377 Soil	05-AUG-2003 15:36 1.0	47.84689			2:FE=246000
115	tr212596 SAMPLE	166624-035	83377 Soil	05-AUG-2003 15:39 1.0	40.81633			3:FE=336900
116	tr212597 SAMPLE	166624-036	83377 Soil	05-AUG-2003 15:43 1.0	42.91845			2:FE=200500
117	tr212598 SAMPLE	166624-039	83377 Soil	05-AUG-2003 15:46 1.0	47.39336			1:FE=178900
118	tr212599 SAMPLE	166624-040	83377 Soil	05-AUG-2003 15:50 1.0	38.16794			3:FE=251700
119	tr212600 CCV			05-AUG-2003 15:58 1.0	1.0		7	
120	tr212601 CCB			05-AUG-2003 16:02 1.0	1.0			
121	tr212602 BLANK	QC221303	83433 Soil	05-AUG-2003 16:05 1.0	50.0			
122	tr212603 BS	QC221304	83433 Soil	05-AUG-2003 16:09 1.0	50.0			
123	tr212604 BSD	QC221305	83433 Soil	05-AUG-2003 16:12 1.0	50.0			
124	tr212605 MSS	166624-030	83433 Soil	05-AUG-2003 16:16 1.0	43.47826	1		1:FE=208700
125	tr212606 SER	QC221308	83433 Soil	05-AUG-2003 16:21 5.0	43.47826	1		
126	tr212607 MS	QC221306	83433 Soil	05-AUG-2003 16:25 1.0	44.05286	1		1:FE=236300
127	tr212608 MSD	QC221307	83433 Soil	05-AUG-2003 16:28 1.0	42.37288	1		1:FE=239500
128	tr212609 SAMPLE	166624-031	83433 Soil	05-AUG-2003 16:32 1.0	45.24887			1:FE=148900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: *Mo. v. v.* Date: *8/10*

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73312901 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
129	tr212610	SAMPLE	166618-003	83433	Soil	05-AUG-2003	16:36	1.0	48.54369					2:FE=196000
130	tr212611	CCV				05-AUG-2003	16:44	1.0	1.0			8		
131	tr212612	CCB				05-AUG-2003	16:51	1.0	1.0					
132	tr212613	SAMPLE	166624-042	83377	Soil	05-AUG-2003	16:55	1.0	47.61905					2:FE=208900
133	tr212614	SAMPLE	166624-044	83377	Soil	05-AUG-2003	16:58	1.0	43.10345					2:FE=234700
134	tr212615	SAMPLE	166624-045	83377	Soil	05-AUG-2003	17:01	1.0	49.75124					1:FE=183000
135	tr212616	SAMPLE	166624-046	83377	Soil	05-AUG-2003	17:05	1.0	50.0					2:FE=214700
136	tr212617	ICSAB				05-AUG-2003	17:10	1.0	1.0			4		4:MG=463700
137	tr212618	CCV				05-AUG-2003	17:16	1.0	1.0			8		
138	tr212619	CCB				05-AUG-2003	17:21	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03SS286 6=03SS287 7=03WS1150 8=03WS1151 9=03WS1152

Analyst: Melanie Date: 8/15
Page 5 of 5

REPORTING SUMMARY FOR 166682 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166682-014	MET07	08/05/03 12:01	1.0	+	+	+	+	+	
QC221217	MET07	08/05/03 10:43	1.0	+	+	+	+	+	
QC221218	MET07	08/05/03 10:47	1.0	+	+	+	+	+	
QC221219	MET07	08/05/03 10:50	1.0	+	+	+	+	+	
QC221220	MET07	08/05/03 11:18	1.0						
QC221220	MET07	08/05/03 11:22	1.0	+	+	+	+	+	
QC221221	MET07	08/05/03 11:25	1.0	+	+	+	+	+	
QC221222	MET07	08/05/03 11:14	5.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary

04-AUG-2003 15:10

Batch Number : 83412
 Date Extracted : 04-AUG-2003
 Extracted by : Patricia V. Vergara
 Prep Method : 3010

Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :

Spike #1 ID : 03SS177
 Spike #2 ID : 03SS178
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166668-007		Treadwell & Rollo	Water	50	ml	50	1	1					TAL/ICP	ms
166668-010		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166673-001		SOMA Environmental Engineering	Water	50	ml	50	1	1					PB	
166680-001		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
166680-002		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
166680-003		Innovative Technical Solutions	Water	50	ml	50	1	1					T26/ICP	
166681-001		Stellar Environmental Solution	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166682-014		Treadwell & Rollo	Water	50	ml	50	1	1					ICAP	
QC221217	BLANK		Water	50	ml	50	1	1					ICAP	
QC221218	BS		Water	50	ml	50	1	1					ICAP	
QC221219	BSD		Water	50	ml	50	1	1					ICAP	
QC221220	MS	of 166668-007	Water	50	ml	50	1	1					ICAP	
QC221221	MSD	of 166668-007	Water	50	ml	50	1	1					ICAP	
QC221222	SER	of 166668-007	Water	50	ml	50	1	1					ICAP	

Prep Chemist: Patricia Vergara Reviewed By: MW Date: 8/1/03
 Relinquished By: Patricia Vergara Received By: MW Date: 8/1/03

08/04/03

Batch # 83412

ICAP/H 3010

SAMPLE ID	INIT VOL (ML)	Final VOL (ML)	FILTERED YES/NO	COMMENTS
A 166668-007 (MSS)	50.0	50	NO	SPIKES
↓ 166668-010				✓ 03SS177 (0.5 ML)
B 166673-001				✓ 03SS178 ↓
G 166680-001				
↓ ↓ 002				Reagents
↓ ↓ 003				HNO3 JT BAKER # Y05050
C 166681-001				1:1 HCL JT BAKER # Y12028/072303
A 166682-014				
MB-DC 221217				
✓ BS 221218				
✓ BSD 221219				
✓ MS-66668-007				
✓ MS-66668-007				

Continued on Page

Read and Understood By

Patricia Virginia
Signed09/12/03
Date

Signed

S/173

Date

Method Detection Limit Study for EPA 6010B/200.7
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299

Reviewer : HDD

Study consists of these runs:

#	Filename	Segment	Sample	num	Analyzed
1	tr209372	73245222092	165833-001		19-JUN-2003 16:25
2	tr209373	73245222093	165833-002		19-JUN-2003 16:29
3	tr209374	73245222094	165833-003		19-JUN-2003 16:32
4	tr209375	73245222095	165833-004		19-JUN-2003 16:36
5	tr209376	73245222096	165833-005		19-JUN-2003 16:39
6	tr209377	73245222097	165833-006		19-JUN-2003 16:42
7	tr209378	73245222098	165833-007		19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	2.070000	1.980000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	0.24	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B / 2a.7 *✓ 6/25/03*
 Curtis & Tompkins Laboratories

Instrument: MET07
 Matrix : Water
 Partition : All

Study # : 17730
 Study Date: 20-JUN-2003
 Effective : 25-JUN-2003
 Batchnum : 82300
 Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L	Eu

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB12 [1]	Batch#:	83485
Lab ID:	166682-004	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03
Diln Fac:	1.000		

Moisture: 5%

Analyte	Result	RL
Aluminum	590	4.8
Antimony	ND	2.9
Arsenic	2.5	0.24
Barium	35	0.48
Beryllium	0.19	0.096
Cadmium	1.1	0.24
Chromium	56	0.48
Cobalt	7.2	0.96
Copper	8.8	0.48
Iron	1,100	4.8
Lead	15	0.14
Magnesium	680	24
Manganese	180	0.48
Nickel	70	0.96
Selenium	ND	0.24
Silver	ND	0.24
Thallium	ND	0.24
Vanadium	24	0.48
Zinc	21	0.96

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Target Analyte List Metals

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	DUP080103C	Batch#:	83485
Lab ID:	166682-005	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Moisture: 3%

Analyte	Result	RL	Diln Fac
Aluminum	6,700	42	10.00
Antimony	ND	2.5	1.000
Arsenic	2.8	0.21	1.000
Barium	38	0.42	1.000
Beryllium	0.22	0.085	1.000
Cadmium	1.2	0.21	1.000
Chromium	60	0.42	1.000
Cobalt	6.9	0.85	1.000
Copper	8.4	0.42	1.000
Iron	12,000	42	10.00
Lead	16	0.13	1.000
Magnesium	5,500	210	10.00
Manganese	180	0.42	1.000
Nickel	58	0.85	1.000
Selenium	ND	0.21	1.000
Silver	ND	0.21	1.000
Thallium	ND	0.21	1.000
Vanadium	29	0.42	1.000
Zinc	23	0.85	1.000

**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Moisture: 4%

Analyte	Result	RL	Diln Fac
Aluminum	7,200	48	10.00
Antimony	ND	2.9	1.000
Arsenic	1.8	0.24	1.000
Barium	33	0.48	1.000
Beryllium	0.23	0.095	1.000
Cadmium	1.2	0.24	1.000
Chromium	50	0.48	1.000
Cobalt	8.8	0.95	1.000
Copper	5.6	0.48	1.000
Iron	12,000	48	10.00
Lead	12	0.14	1.000
Magnesium	2,100	24	1.000
Manganese	250	0.48	1.000
Nickel	39	0.95	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	29	0.48	1.000
Zinc	30	0.95	1.000

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Barium

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Analyzed
BAPSB03R [5.5]	SAMPLE	166682-001	140	0.52	dry	10%	83482	08/06/03
BAPSB07 [5.5]	SAMPLE	166682-003	31	0.46	dry	2%	83482	08/06/03
BAPSB12 [3]	SAMPLE	166682-006	34	0.44	dry	2%	83482	08/06/03
BAPSB04 [1] [MSD]	SAMPLE	166682-007	140	0.49	dry	5%	83482	08/06/03
BAPSB04 [3]	SAMPLE	166682-008	40	0.47	dry	4%	83482	08/06/03
DUP080103D	SAMPLE	166682-009	56	0.43	dry	4%	83482	08/06/03
BAPSB16 [0.3] [MSD]	SAMPLE	166682-010	41	0.50	dry	5%	83482	08/06/03
BAPSB16 [1]	SAMPLE	166682-011	38	0.48	dry	3%	83482	08/06/03
DUP080103E	SAMPLE	166682-012	55	0.50	dry	7%	83482	08/06/03
BAPSB10 [2]	SAMPLE	166682-015	31	0.49	dry	3%	83482	08/06/03
BAPSB05 [7] [MSD]	SAMPLE	166682-016	110	0.57	dry	20%	83482	08/06/03
DUP080103F	SAMPLE	166682-017	110	0.55	dry	21%	83482	08/06/03
BAPSB05 [8.5]	SAMPLE	166682-018	94	0.59	dry	16%	83482	08/06/03
BAPSB03R [6.5]	SAMPLE	166682-019	100	0.51	dry	16%	83482	08/06/03
	BLANK	QC221487	ND	0.50	as received		83482	08/06/03
	BLANK	QC221498	ND	0.50	as received		83485	08/07/03

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Analyzed
BAPSB03R [5.5]	SAMPLE	166682-001	23	0.52	dry	10%	83482	08/06/03
BAPSB07 [5.5]	SAMPLE	166682-003	6.5	0.46	dry	2%	83482	08/06/03
BAPSB12 [3]	SAMPLE	166682-006	8.3	0.44	dry	2%	83482	08/06/03
BAPSB04 [1] [MSD]	SAMPLE	166682-007	14	0.49	dry	5%	83482	08/06/03
BAPSB04 [3]	SAMPLE	166682-008	4.8	0.47	dry	4%	83482	08/06/03
DUP080103D	SAMPLE	166682-009	7.1	0.43	dry	4%	83482	08/06/03
BAPSB16 [0.3] [MSD]	SAMPLE	166682-010	5.7	0.50	dry	5%	83482	08/06/03
BAPSB16 [1]	SAMPLE	166682-011	4.7	0.48	dry	3%	83482	08/06/03
DUP080103E	SAMPLE	166682-012	6.8	0.50	dry	7%	83482	08/06/03
BAPSB10 [2]	SAMPLE	166682-015	3.7	0.49	dry	3%	83482	08/06/03
BAPSB05 [7] [MSD]	SAMPLE	166682-016	10	0.57	dry	20%	83482	08/06/03
DUP080103F	SAMPLE	166682-017	9.6	0.55	dry	21%	83482	08/06/03
BAPSB05 [8.5]	SAMPLE	166682-018	6.9	0.59	dry	16%	83482	08/06/03
BAPSB03R [6.5]	SAMPLE	166682-019	7.8	0.51	dry	16%	83482	08/06/03
	BLANK	QC221487	ND	0.50	as received		83482	08/06/03
	BLANK	QC221498	ND	0.50	as received		83485	08/07/03

ND= Not Detected

RL= Reporting Limit

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**Lead**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Analyzed
BAPSB03R [5.5]	SAMPLE	166682-001	230	0.16	dry	10%	83482	08/06/03
BAPSB07 [5.5]	SAMPLE	166682-003	9.2	0.14	dry	2%	83482	08/06/03
BAPSB12 [3]	SAMPLE	166682-006	18	0.13	dry	2%	83482	08/06/03
BAPSB04 [1] [MSD]	SAMPLE	166682-007	67	0.15	dry	5%	83482	08/06/03
BAPSB04 [3]	SAMPLE	166682-008	3.6	0.14	dry	4%	83482	08/06/03
DUP080103D	SAMPLE	166682-009	13	0.13	dry	4%	83482	08/06/03
BAPSB16 [0.3] [MSD]	SAMPLE	166682-010	5.3	0.15	dry	5%	83482	08/06/03
BAPSB16 [1]	SAMPLE	166682-011	4.8	0.14	dry	3%	83482	08/06/03
DUP080103E	SAMPLE	166682-012	24	0.15	dry	7%	83482	08/06/03
BAPSB10 [2]	SAMPLE	166682-015	3.0	0.15	dry	3%	83482	08/06/03
BAPSB05 [7] [MSD]	SAMPLE	166682-016	17	0.17	dry	20%	83482	08/06/03
DUP080103F	SAMPLE	166682-017	9.0	0.17	dry	21%	83482	08/06/03
BAPSB05 [8.5]	SAMPLE	166682-018	5.4	0.18	dry	16%	83482	08/06/03
BAPSB03R [6.5]	SAMPLE	166682-019	5.4	0.15	dry	16%	83482	08/06/03
	BLANK	QC221487	ND	0.15	as received		83482	08/06/03
	BLANK	QC221498	ND	0.15	as received		83485	08/07/03

ND= Not Detected

RL= Reporting Limit

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Antimony

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Analyzed
BAPSB03R [5.5]	SAMPLE	166682-001	ND	3.1	dry	10%	83482	08/06/03
BAPSB07 [5.5]	SAMPLE	166682-003	ND	2.7	dry	2%	83482	08/06/03
BAPSB12 [3]	SAMPLE	166682-006	ND	2.6	dry	2%	83482	08/06/03
BAPSB04 [1] [MSD]	SAMPLE	166682-007	ND	2.9	dry	5%	83482	08/06/03
BAPSB04 [3]	SAMPLE	166682-008	ND	2.8	dry	4%	83482	08/06/03
DUP080103D	SAMPLE	166682-009	ND	2.6	dry	4%	83482	08/06/03
BAPSB16 [0.3] [MSD]	SAMPLE	166682-010	ND	3.0	dry	5%	83482	08/06/03
BAPSB16 [1]	SAMPLE	166682-011	ND	2.9	dry	3%	83482	08/06/03
DUP080103E	SAMPLE	166682-012	ND	3.0	dry	7%	83482	08/06/03
BAPSB10 [2]	SAMPLE	166682-015	ND	2.9	dry	3%	83482	08/06/03
BAPSB05 [7] [MSD]	SAMPLE	166682-016	ND	3.4	dry	20%	83482	08/07/03
DUP080103F	SAMPLE	166682-017	ND	3.3	dry	21%	83482	08/07/03
BAPSB05 [8.5]	SAMPLE	166682-018	ND	3.6	dry	16%	83482	08/07/03
BAPSB03R [6.5]	SAMPLE	166682-019	ND	3.1	dry	16%	83482	08/07/03
	BLANK	QC221487	ND	3.0	as received		83482	08/06/03
	BLANK	QC221498	ND	3.0	as received		83485	08/07/03

**Zinc**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Analyzed
BAPSB03R [5.5]	SAMPLE	166682-001	200	1.0	dry	10%	83482	08/07/03
BAPSB07 [5.5]	SAMPLE	166682-003	23	0.92	dry	2%	83482	08/06/03
BAPSB12 [3]	SAMPLE	166682-006	30	0.88	dry	2%	83482	08/06/03
BAPSB04 [1] [MSD]	SAMPLE	166682-007	100	0.98	dry	5%	83482	08/06/03
BAPSB04 [3]	SAMPLE	166682-008	20	0.94	dry	4%	83482	08/06/03
DUP080103D	SAMPLE	166682-009	38	0.86	dry	4%	83482	08/06/03
BAPSB16 [0.3] [MSD]	SAMPLE	166682-010	25	1.0	dry	5%	83482	08/06/03
BAPSB16 [1]	SAMPLE	166682-011	20	0.95	dry	3%	83482	08/06/03
DUP080103E	SAMPLE	166682-012	29	1.0	dry	7%	83482	08/06/03
BAPSB10 [2]	SAMPLE	166682-015	18	0.98	dry	3%	83482	08/06/03
BAPSB05 [7] [MSD]	SAMPLE	166682-016	33	1.1	dry	20%	83482	08/06/03
DUP080103F	SAMPLE	166682-017	30	1.1	dry	21%	83482	08/06/03
BAPSB05 [8.5]	SAMPLE	166682-018	22	1.2	dry	16%	83482	08/06/03
BAPSB03R [6.5]	SAMPLE	166682-019	28	1.0	dry	16%	83482	08/06/03
	BLANK	QC221487	ND	1.0	as received		83482	08/06/03
	BLANK	QC221498	ND	1.0	as received		83485	08/07/03

ND= Not Detected

RL= Reporting Limit

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**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221498	Batch#:	83485
Matrix:	Soil	Prepared:	08/06/03
Units:	mg/Kg	Analyzed:	08/07/03
Basis:	as received		

Analyte	Result	RL
Aluminum	ND	5.0
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Magnesium	ND	25
Manganese	ND	0.50
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

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**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC221487	Batch#:	83482
Matrix:	Soil	Prepared:	08/06/03
Units:	mg/Kg	Analyzed:	08/06/03
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Barium	ND	0.50
Copper	ND	0.50
Lead	ND	0.15
Zinc	ND	1.0



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Target Analyte List Metals

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03
Diln Fac:	1.000		

Type: BS

Lab ID: QC221499

Analyte	Spiked	Result	%REC	Limits
Aluminum	1,000	924.0	92	75-125
Antimony	100.0	103.5	104	75-125
Arsenic	50.00	44.75	90	75-125
Barium	100.0	95.50	96	75-125
Beryllium	2.500	2.395	96	75-125
Cadmium	10.00	8.800	88	75-125
Chromium	100.0	92.50	93	75-125
Cobalt	25.00	22.25	89	75-125
Copper	12.50	12.20	98	75-125
Iron	1,000	909.0	91	75-125
Lead	100.0	88.50	89	75-125
Magnesium	1,000	892.0	89	75-125
Manganese	25.00	22.70	91	75-125
Nickel	25.00	22.60	90	75-125
Selenium	50.00	39.30	79	75-125
Silver	10.00	9.050	91	75-125
Thallium	50.00	44.45	89	75-125
Vanadium	25.00	23.60	94	75-125
Zinc	25.00	21.45	86	75-125

Type: BSD

Lab ID: QC221500

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	1,000	912.5	91	75-125	1	30
Antimony	100.0	100.0	100	75-125	3	30
Arsenic	50.00	43.55	87	75-125	3	30
Barium	100.0	95.00	95	75-125	1	30
Beryllium	2.500	2.335	93	75-125	3	30
Cadmium	10.00	8.550	86	75-125	3	30
Chromium	100.0	90.50	91	75-125	2	30
Cobalt	25.00	21.70	87	75-125	3	30
Copper	12.50	12.10	97	75-125	1	30
Iron	1,000	885.0	89	75-125	3	30
Lead	100.0	86.00	86	75-125	3	30
Magnesium	1,000	869.0	87	75-125	3	30
Manganese	25.00	22.15	89	75-125	2	30
Nickel	25.00	22.00	88	75-125	3	30
Selenium	50.00	38.45	77	75-125	2	30
Silver	10.00	8.900	89	75-125	2	30
Thallium	50.00	43.50	87	75-125	2	30
Vanadium	25.00	23.15	93	75-125	2	30
Zinc	25.00	20.95	84	75-125	2	30

**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03
Diln Fac:	1.000		

Type: BS Lab ID: QC221488

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.50	97	75-125
Barium	100.0	91.50	92	75-125
Copper	12.50	11.90	95	75-125
Lead	100.0	89.00	89	75-125
Zinc	25.00	21.85	87	75-125

Type: BSD Lab ID: QC221489

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	91.50	92	75-125	5	30
Barium	100.0	88.00	88	75-125	4	30
Copper	12.50	11.35	91	75-125	5	30
Lead	100.0	83.00	83	75-125	7	30
Zinc	25.00	20.30	81	75-125	7	30

**Barium**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	91.50	92	75-125		
BSD	QC221489	100.0	88.00	88	75-125	4	30

**Barium**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	95.50	96	75-125		
BSD	QC221500	100.0	95.00	95	75-125	1	30

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	12.50	11.90	95	75-125		
BSD	QC221489	12.50	11.35	91	75-125	5	30

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	12.50	12.20	98	75-125		
BSD	QC221500	12.50	12.10	97	75-125	1	30

**Lead**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	89.00	89	75-125		
BSD	QC221489	100.0	83.00	83	75-125	7	30

**Lead**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	88.50	89	75-125		
BSD	QC221500	100.0	86.00	86	75-125	3	30

**Antimony**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	100.0	96.50	97	75-125		
BSD	QC221489	100.0	91.50	92	75-125	5	30

**Antimony**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	100.0	103.5	104	75-125		
BSD	QC221500	100.0	100.0	100	75-125	3	30

**Zinc**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83482
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/06/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221488	25.00	21.85	87	75-125		
BSD	QC221489	25.00	20.30	81	75-125	7	30

Zinc			
Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83485
Units:	mg/Kg	Prepared:	08/06/03
Basis:	as received	Analyzed:	08/07/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221499	25.00	21.45	86	75-125		
BSD	QC221500	25.00	20.95	84	75-125	2	30



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Target Analyte List Metals

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB10[1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221501

Moisture: 4%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	7,249	955.7	7,793 >LR	57 NM	75-125
Antimony	0.6897	95.57	29.48	30 *	75-125
Arsenic	1.822	47.78	34.98	69 *	75-125
Barium	33.44	95.57	109.9	80	75-125
Beryllium	0.2331	2.389	2.131	79	75-125
Cadmium	1.161	9.557	7.980	71 *	75-125
Chromium	50.42	95.57	117.5	70 *	75-125
Cobalt	8.752	23.89	25.75	71 *	75-125
Copper	5.613	11.95	15.43	82	75-125
Iron	11,500	955.7	10,630 >LR	-91 NM	75-125
Lead	11.80	95.57	79.32	71 *	75-125
Magnesium	2,079	955.7	2,647	59 *	75-125
Manganese	247.8	23.89	246.1	-7 NM	75-125
Nickel	38.96	23.89	54.47	65 *	75-125
Selenium	<0.1667	47.78	29.96	63 *	75-125
Silver	<0.02604	9.557	7.454	78	75-125
Thallium	0.1641	47.78	35.17	73 *	75-125
Vanadium	29.01	23.89	45.92	71 *	75-125
Zinc	30.35	23.89	42.96	53 *	75-125

Type: MSD
Lab ID: QC221502

Moisture: 4%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	833.3	8,171 >LR	111 NM	75-125	NC	30
Antimony	83.33	23.04	27 *	75-125	11	30
Arsenic	41.67	32.92	75	75-125	7	30
Barium	83.33	105.4	86	75-125	6	30
Beryllium	2.083	2.013	85	75-125	7	30
Cadmium	8.333	7.583	77	75-125	7	30
Chromium	83.33	117.5	80	75-125	9	30
Cobalt	20.83	24.83	77	75-125	6	30
Copper	10.42	14.92	89	75-125	6	30
Iron	833.3	11,150 >LR	-42 NM	75-125	NC	30
Lead	83.33	74.17	75	75-125	5	30
Magnesium	833.3	2,713	76	75-125	7	30
Manganese	20.83	255.0	35 NM	75-125	5	30
Nickel	20.83	55.42	79	75-125	7	30
Selenium	41.67	27.88	67 *	75-125	6	30
Silver	8.333	6.875	83	75-125	6	30
Thallium	41.67	32.88	79	75-125	7	30
Vanadium	20.83	46.25	83	75-125	7	30
Zinc	20.83	42.08	56 *	75-125	4	30

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

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Target Analyte List Metals

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221490

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6316	103.2	36.79	35 *	75-125
Barium	140.5	103.2	180.1	38 *	75-125
Copper	13.95	12.90	23.89	77	75-125
Lead	67.07	103.2	148.1	79	75-125
Zinc	100.4	25.80	119.7	75	75-125

Type: MSD
Lab ID: QC221491

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	98.38	40.38	40 *	75-125	14	30
Barium	98.38	160.8	21 *	75-125	9	30
Copper	12.30	22.58	70 *	75-125	3	30
Lead	98.38	129.4	63 *	75-125	11	30
Zinc	24.59	96.41	-16 NM	75-125	21	30

*= Value outside of QC limits; see narrative

NM= Not Meaningful

RPD= Relative Percent Difference

**Target Analyte List Metals**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03
Diln Fac:	1.000		

Type: MS
Lab ID: QC221493

Moisture: 5%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.4608	97.92	28.84	29 *	75-125
Barium	41.30	97.92	126.8	87	75-125
Copper	5.742	12.24	16.89	91	75-125
Lead	5.339	97.92	82.74	79	75-125
Zinc	24.68	24.48	42.55	73 *	75-125

Type: MSD
Lab ID: QC221494

Moisture: 5%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	95.26	32.39	34 *	75-125	14	30
Barium	95.26	126.7	90	75-125	2	30
Copper	11.91	16.91	94	75-125	2	30
Lead	95.26	82.40	81	75-125	2	30
Zinc	23.82	42.68	76	75-125	2	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Barium**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	140.5	103.2	180.1	38 *	75-125	5%		
MSD	QC221491		98.38	160.8	21 *	75-125	5%	9	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Barium**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	41.30	97.92	126.8	87	75-125	5%		
MSD	QC221494		95.26	126.7	90	75-125	5%	2	30

**Barium**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	33.44	95.57	109.9	80	75-125	4%		
MSD	QC221502		83.33	105.4	86	75-125	4%	6	30

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	13.95	12.90	23.89	77	75-125	5%		
MSD	QC221491		12.30	22.58	70 *	75-125	5%	3	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	5.742	12.24	16.89	91	75-125	5%		
MSD	QC221494		11.91	16.91	94	75-125	5%	2	30

**Copper**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	5.613	11.95	15.43	82	75-125	4%		
MSD	QC221502		10.42	14.92	89	75-125	4%	6	30

Lead			
Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	67.07	103.2	148.1	79	75-125	5%		
MSD	QC221491		98.38	129.4	63 *	75-125	5%	11	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Lead**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	5.339	97.92	82.74	79	75-125	5%		
MSD	QC221494		95.26	82.40	81	75-125	5%	2	30

**Lead**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	11.80	95.57	79.32	71 *	75-125	4%		
MSD	QC221502		83.33	74.17	75	75-125	4%	5	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Antimony**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB04 [1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	0.6316	103.2	36.79	35 *	75-125	5%		
MSD	QC221491		98.38	40.38	40 *	75-125	5%	14	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Antimony**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB16 [0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	0.4608	97.92	28.84	29 *	75-125	5%		
MSD	QC221494		95.26	32.39	34 *	75-125	5%	14	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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**Antimony**

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	0.6897	95.57	29.48	30 *	75-125	4%		
MSD	QC221502		83.33	23.04	27 *	75-125	4%	11	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc			
Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB04[1] [MSD]	Batch#:	83482
MSS Lab ID:	166682-007	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221490	100.4	25.80	119.7	75	75-125	5%		
MSD	QC221491		24.59	96.41	-16 NM	75-125	5%	21	30

NM= Not Meaningful

RPD= Relative Percent Difference

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Zinc			
Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB16[0.3] [MSD]	Batch#:	83482
MSS Lab ID:	166682-010	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/06/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221493	24.68	24.48	42.55	73 *	75-125	5%		
MSD	QC221494		23.82	42.68	76	75-125	5%	2	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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Zinc

Lab #:	166682	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB10 [1] [MSD]	Batch#:	83485
MSS Lab ID:	166682-013	Sampled:	08/01/03
Matrix:	Soil	Received:	08/01/03
Units:	mg/Kg	Prepared:	08/06/03
Basis:	dry	Analyzed:	08/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221501	30.35	23.89	42.96	53 *	75-125	4%		
MSD	QC221502		20.83	42.08	56 *	75-125	4%	4	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73315766036	Seqnum : 73315766037
Filename : tr212910	Filename : tr212911
IDF : 1.0	IDF : 5.0
PDF : 45.66210	PDF : 45.66210
Run type : MSS	Run type : SER
Samplenum: 166682-013	Samplenum: QC221503
Matrix : Soil	Matrix : Soil
Batchnum : 83485	Batchnum : 83485
Inj : 07-AUG-2003 10:12	Inj : 07-AUG-2003 10:15
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.74	ND	13.7	--	10	u
Arsenic	1.75	0.228	2.11	1.14	--	10	u
Barium	32.1	0.457	33.8	2.28	5	10	u
Beryllium	0.224	0.0913	ND	0.457	--	10	u
Cadmium	1.11	0.228	1.14	1.14	--	10	u
Calcium	2510	22.8	2730	114	9	10	u
Chromium	48.4	0.457	51.8	2.28	7	10	u
Cobalt	8.40	0.913	9.13	4.57	--	10	u
Copper	5.39	0.457	5.43	2.28	1	10	u
Iron	*** usable MSS data not found ***						
Lead	11.3	0.137	12.2	0.685	8	10	u
Magnesium	2000	22.8	2190	114	10	10	u
Manganese	238	0.457	256	2.28	7	10	u
Molybdenum	ND	0.913	ND	4.57	--	10	u
Nickel	37.4	0.913	40.9	4.57	9	10	u
Selenium	ND	0.228	ND	1.14	--	10	u
Silver	ND	0.228	ND	1.14	--	10	u
Thallium	ND	0.228	ND	1.14	--	10	u
Vanadium	27.9	0.457	29.5	2.28	6	10	u
Zinc	29.1	0.913	32.0	4.57	10	10	u
Titanium	360	0.457	370	2.28	3	10	u

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73315766040	Seqnum : 73315766041
Filename : tr212915	Filename : tr212916
IDF : 10.0	IDF : 50.0
PDF : 45.66210	PDF : 45.66210
Run type : MSS	Run type : SER
Samplenum: 166682-013	Samplenum: QC221503
Matrix : Soil	Matrix : Soil
Batchnum : 83485	Batchnum : 83485
Inj : 07-AUG-2003 10:39	Inj : 07-AUG-2003 10:42
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	6960	45.7	6980	228	0	10	u
Antimony	ND	27.4	ND	137	--	10	
Arsenic	ND	2.28	ND	11.4	--	10	
Barium	33.4	4.57	34.0	22.8	--	10	
Beryllium	ND	0.913	ND	4.57	--	10	
Cadmium	ND	2.28	ND	11.4	--	10	
Calcium	2720	228	2800	1140	3	10	
Chromium	51.1	4.57	51.1	22.8	0	10	
Cobalt	ND	9.13	ND	45.7	--	10	
Copper	5.39	4.57	ND	22.8	--	10	
Iron	11000	45.7	11300	228	2	10	u
Lead	12.1	1.37	12.4	6.85	--	10	
Magnesium	2170	228	2230	1140	--	10	
Manganese	254	4.57	260	22.8	3	10	
Molybdenum	ND	9.13	ND	45.7	--	10	
Nickel	40.6	9.13	ND	45.7	--	10	
Selenium	ND	2.28	ND	11.4	--	10	
Silver	ND	2.28	ND	11.4	--	10	
Thallium	ND	2.28	ND	11.4	--	10	
Vanadium	29.1	4.57	29.2	22.8	--	10	
Zinc	31.9	9.13	ND	45.7	--	10	
Titanium	366	4.57	372	22.8	2	10	

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 73314350123
Filename : tr212827
IDF : 1.0
PDF : 46.51163
Run type : MSS
Samplenum: 166682-007
Matrix : Soil
Batchnum : 83482
Inj : 06-AUG-2003 17:47
Units : mg/Kg

Instid : MET07
Seqnum : 73314350124
Filename : tr212828
IDF : 5.0
PDF : 46.51163
Run type : SER
Samplenum: QC221492
Matrix : Soil
Batchnum : 83482
Inj : 06-AUG-2003 17:53

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***			14.0	--	10	u
Antimony	ND	2.79	ND	1.16	1	10	u
Arsenic	2.53	0.233	2.51	2.33	0	10	u
Barium	133	0.465	134	0.465	--	10	u
Beryllium	0.288	0.0930	ND	1.16	--	10	u
Cadmium	1.61	0.233	1.64	116	11	10	fu
Calcium	2480	23.3	2740	2.33	8	10	u
Chromium	62.8	0.465	67.7	4.65	11	10	fu
Cobalt	10.8	0.930	11.9	2.33	1	10	u
Copper	13.3	0.465	13.1				
Iron	*** usable MSS data not found ***			0.698	12	10	fu
Lead	63.7	0.140	71.6	116	10	10	u
Magnesium	3450	23.3	3790	2.33	8	10	u
Manganese	324	0.465	351	4.65	--	10	u
Molybdenum	ND	0.930	ND	4.65	12	10	fu
Nickel	58.1	0.930	64.9	1.16	--	10	u
Selenium	ND	0.233	ND	1.16	--	10	u
Silver	ND	0.233	ND				
Thallium	*** usable MSS data not found ***			2.33	6	10	u
Vanadium	33.6	0.465	35.6	4.65	13	10	fu
Zinc	95.3	0.930	108	2.33	3	10	u
Titanium	406	0.465	416				

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13315951035	Seqnum : 13315951036
Filename : icp159862	Filename : icp159863
IDF : 1.0	IDF : 5.0
PDF : 46.51163	PDF : 46.51163
Run type : MSS	Run type : SER
Samplenum: 166682-007	Samplenum: QC221492
Matrix : Soil	Matrix : Soil
Batchnum : 83482	Batchnum : 83482
Inj : 07-AUG-2003 12:44	Inj : 07-AUG-2003 12:47
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.79	ND	14.0	--	10	
Arsenic	0.747	0.233	ND	1.16	--	10	
Barium	145	0.465	133	2.33	8	10	
Beryllium	0.248	0.0930	ND	0.465	--	10	
Cadmium	ND	0.233	ND	1.16	--	10	
Calcium	2640	23.3	2870	116	8	10	
Chromium	62.6	0.465	64.6	2.33	3	10	
Cobalt	11.9	0.930	13.2	4.65	11	10	f
Copper	13.9	0.465	12.8	2.33	8	10	
Iron	*** usable MSS data not found ***						
Lead	66.9	0.140	72.0	0.698	8	10	
Magnesium	3620	23.3	3690	116	2	10	
Manganese	339	0.465	353	2.33	4	10	
Molybdenum	ND	0.930	ND	4.65	--	10	
Nickel	55.7	0.930	59.3	4.65	7	10	
Potassium	568	23.3	537	116	5	10	
Selenium	10.0	0.233	ND	1.16	131	10	f
Silver	ND	0.233	ND	1.16	--	10	
Sodium	151	23.3	ND	116	--	10	
Thallium	ND	0.233	ND	1.16	--	10	
Vanadium	33.9	0.465	33.0	2.33	3	10	
Zinc	100	0.930	110	4.65	10	10	
Boron	*** usable MSS data not found ***						
Phosphorus	287	4.65	309	23.3	8	10	qu
Silicon	*** usable MSS data not found ***						
Sulfide	*** usable MSS data not found ***						
Tin	*** usable MSS data not found ***						
Titanium	421	0.465	408	2.33	3	10	

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13315951037	Seqnum : 13315951038
Filename : icp159864	Filename : icp159865
IDF : 5.0	IDF : 25.0
PDF : 46.51163	PDF : 46.51163
Run type : MSS	Run type : SER
Samplenum: 166682-007	Samplenum: QC221492
Matrix : Soil	Matrix : Soil
Batchnum : 83482	Batchnum : 83482
Inj : 07-AUG-2003 12:50	Inj : 07-AUG-2003 12:54
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	7800	23.3	8370	116	7	10	u
Antimony	ND	14.0	ND	69.8	--	10	
Arsenic	ND	1.16	ND	5.81	--	10	
Barium	134	2.33	143	11.6	7	10	
Beryllium	ND	0.465	ND	2.33	--	10	
Cadmium	ND	1.16	ND	5.81	--	10	
Calcium	2780	116	3000	581	8	10	
Chromium	63.8	2.33	67.2	11.6	5	10	
Cobalt	13.4	4.65	ND	23.3	--	10	
Copper	12.7	2.33	ND	11.6	--	10	
Iron	14300	23.3	15500	116	8	10	u
Lead	75.0	0.698	33.9	3.49	55	10	afb*
Magnesium	3650	116	3960	581	8	10	
Manganese	346	2.33	377	11.6	9	10	
Molybdenum	ND	4.65	ND	23.3	--	10	
Nickel	56.4	4.65	71.2	23.3	26	10	f
Potassium	474	116	ND	581	--	10	u
Selenium	7.67	1.16	ND	5.81	--	10	
Silver	ND	1.16	ND	5.81	--	10	
Sodium	ND	116	ND	581	--	10	u
Thallium	ND	1.16	ND	5.81	--	10	u
Vanadium	33.5	2.33	32.9	11.6	2	10	
Zinc	107	4.65	112	23.3	4	10	
Boron	*** usable MSS data not found ***						
Phosphorus	309	23.3	402	116	30	10	fq
Silicon	*** usable MSS data not found ***						
Sulfide	*** usable MSS data not found ***						
Tin	*** usable MSS data not found ***						
Titanium	404	2.33	431	11.6	6	10	

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01
Seqnum : 13315951054
Filename : icp159881
IDF : 1.0
PDF : 46.51163
Run type : PDS
Samplenum: QC221624
Matrix : Soil
Batchnum : 83482
Inj : 07-AUG-2003 14:02
MSS : 166682-007

Analyte	MSS Seqnum	MSS	Spike Amt	PDS %Rec	Lim%Rec	Flags
Aluminum	13315951037	33560	20000	191400 >LR 118	15-150 ug/L	:>u
Antimony	13315951035	29.96	2000	1458 71	15-123 ug/L	u
Arsenic	13315951035	ND	1000	836.7 84	40-126 ug/L	u
Barium	13315951035	3109	2000	4872 88	19-138 ug/L	u
Beryllium	13315951035	5.339	50	52.39 94	58-120 ug/L	u
Cadmium	13315951035	4.792	200	163.1 79	47-120 ug/L	u
Calcium	13315951035	56850	20000	74020 86	16-150 ug/L	u
Chromium	13315951035	1346	2000	2920 79	35-131 ug/L	u
Cobalt	13315951035	255.1	500	658.4 81	39-120 ug/L	u
Copper	13315951035	298.3	250	514.0 86	32-150 ug/L	u
Iron	13315951037	61510	20000	305100 >LR -12	15-150 ug/L	:>u
Lead	13315951035	1439	2000	2872 72	23-137 ug/L	u
Magnesium	13315951035	77860	20000	93920 80	20-150 ug/L	u
Manganese	13315951035	7296	500	7507 42	15-150 ug/L	:u
Molybdenum	13315951035	ND	400	325.5 81	28-120 ug/L	u
Nickel	13315951035	1197	500	1569 74	32-136 ug/L	u
Potassium	13315951035	12220	10000	20770 86	22-150 ug/L	u
Selenium	13315951035	216.0	1000	997.5 78	38-120 ug/L	u
Silver	13315951035	ND	200	156.4 78	55-120 ug/L	u
Sodium	13315951035	3239	20000	20880 88	32-133 ug/L	u
Thallium	13315951035	ND	1000	720.2 72	50-120 ug/L	u
Vanadium	13315951035	728.8	500	1148 84	25-130 ug/L	u
Zinc	13315951035	2156	500	2549 79	20-147 ug/L	:u
Boron	*** usable MSS data not found ***					
Phosphorus	*** not spiked in PDS ***					
Silicon	*** not spiked in PDS ***					
Sulfide	*** not spiked in PDS ***					
Tin	*** usable MSS data not found ***					
Titanium	13315951035	9059	1000	9595 54	15-150 ug/L	:u

:recovery not meaningful >=>LR u=use

Method: 6010B Standard: blank
Run Time: 08/06/03 06:58:33

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avg	-.000	-.002	-.002	-.003	-.157	.005	.002
SDev	.001	.003	.001	.003	.003	.001	.000
%RSD	311.	130.	37.5	88.4	1.92	18.0	2.89
#1	.000	-.005	-.002	-.005	-.155	.005	.002
#2	-.001	-.000	-.001	-.001	-.159	.006	.002
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avg	-.002	-.023	.004	.009	.002	-.004	-.012
SDev	.000	.000	.003	.004	.001	.001	.001
%RSD	24.0	1.04	68.8	43.4	45.1	37.2	4.85
#1	-.002	-.023	.002	.012	.001	-.003	-.012
#2	-.001	-.023	.006	.006	.002	-.005	-.011
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avg	.003	-.007	-.001	-.000	.031	.1884	.0004
SDev	.001	.002	.000	.001	.000	.0016	.0002
%RSD	42.3	33.2	67.0	182.	.307	.8256	64.28
#1	.004	-.008	-.000	-.001	.031	.1873	.0005
#2	.002	-.005	-.001	.000	.031	.1895	.0002
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avg	-.0034	.0010	.003	.355			
SDev	.0004	.0009	.001	.004			
%RSD	12.36	94.28	25.4	.995			
#1	-.0031	.0017	.003	.358			
#2	-.0037	.0003	.002	.353			

Method: 6010B Standard: cst hi
Run Time: 08/06/03 07:03:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.14	1.33	.492	69.3	8.27	2.78	.599
SDev	.08	.04	.001	.1	.02	.01	.000
%RSD	3.68	2.99	.125	.206	.196	.199	.024
#1	2.08	1.30	.491	69.2	8.25	2.77	.599
#2	2.19	1.36	.492	69.4	8.28	2.78	.599
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.70	1.51	1.84	1.92	3.43	4.55	.525
SDev	.00	.00	.00	.01	.02	.01	.007
%RSD	.097	.004	.041	.309	.472	.159	1.39
#1	1.70	1.51	1.84	1.92	3.42	4.55	.530
#2	1.70	1.51	1.84	1.92	3.44	4.56	.520
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.646	.703	.330	2.37	.384	.4723	.7088
SDev	.000	.001	.001	.01	.000	.0014	.0006
%RSD	.058	.101	.186	.227	.061	.2994	.0865
#1	.646	.702	.331	2.37	.384	.4713	.7083
#2	.647	.703	.330	2.38	.384	.4733	.7092
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2955	.4488	2.38	23.4			
SDev	.0004	.0004	.00	.0			
%RSD	.1276	.0945	.081	.152			
#1	.2952	.4485	2.37	23.4			
#2	.2957	.4491	2.38	23.4			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple Standards	Standards	465.908	.077651	08/06/03 07:03:54
Sb206A	206.832	Multiple Standards	Standards	737.087	1.76901	08/06/03 07:03:54
As1890	189.042	Multiple Standards	Standards	1014.63	1.65722	08/06/03 07:03:54
Ba4934	493.409	Multiple Standards	Standards	14.4377	.046201	08/06/03 07:03:54
Be3130	313.042	Multiple Standards	Standards	11.4698	1.80153	08/06/03 07:03:54
Cd2265	226.502	Multiple Standards	Standards	36.0533	-.198293	08/06/03 07:03:54
Cr2677	267.716	Multiple Standards	Standards	334.897	-.546999	08/06/03 07:03:54
Co2286	228.616	Multiple Standards	Standards	294.072	.519526	08/06/03 07:03:54
Cu3247	324.754	Multiple Standards	Standards	130.879	2.97313	08/06/03 07:03:54
Pb2203	220.351	Multiple Standards	Standards	272.220	-1.02536	08/06/03 07:03:54
Pb220A	220.352	Multiple Standards	Standards	259.615	-2.39712	08/06/03 07:03:54
Mo2020	202.030	Multiple Standards	Standards	291.440	-.456590	08/06/03 07:03:54
Ni2316	231.604	Multiple Standards	Standards	109.546	.416276	08/06/03 07:03:54
Se1960	196.021	Multiple Standards	Standards	932.774	10.8824	08/06/03 07:03:54
Se196A	196.022	Multiple Standards	Standards	776.901	-2.51198	08/06/03 07:03:54
Ag3280	328.068	Multiple Standards	Standards	140.984	.921096	08/06/03 07:03:54
Tl1908	190.864	Multiple Standards	Standards	1520.00	.962664	08/06/03 07:03:54
V_2924	292.402	Multiple Standards	Standards	210.526	.098245	08/06/03 07:03:54
Zn2138	213.856	Multiple Standards	Standards	293.699	-9.02635	08/06/03 07:03:54
Al3082	308.215	Multiple Standards	Standards	3567.77	-672.287	08/06/03 07:03:54
Ca3179	317.933	Multiple Standards	Standards	2823.30	-1.03521	08/06/03 07:03:54
Fe2714	271.441	Multiple Standards	Standards	3488.87	11.9784	08/06/03 07:03:54
Mg2790	279.079	Multiple Standards	Standards	4465.40	-4.46540	08/06/03 07:03:54
Mn2576	257.610	Multiple Standards	Standards	42.1461	-.109580	08/06/03 07:03:54
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/06/03 07:03:54
Ti3349	334.941	Multiple Standards	Standards	43.3949	-15.4124	08/06/03 07:03:54

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350001

Run Name :
Filename : tr212702

Injected : 06-AUG-2003 07:10
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	997.0000	ug/L	0	5	
Antimony	1000.000	1020.000	ug/L	2	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2014.000	ug/L	1	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	501.0000	ug/L	0	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1001.000	ug/L	0	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2012.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	502.0000	ug/L	0	5	
Selenium	500.0000	498.0000	ug/L	0	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	508.0000	ug/L	2	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	502.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350002

Run Name :
Filename : tr212703

Injected : 06-AUG-2003 07:15
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	494.4000	ug/L	-1	10	
Antimony	500.0000	492.0000	ug/L	-2	10	
Arsenic	250.0000	256.0000	ug/L	2	10	
Barium	500.0000	495.0000	ug/L	-1	10	
Beryllium	50.00000	51.80000	ug/L	4	10	
Cadmium	50.00000	49.60000	ug/L	-1	10	
Calcium	1000.000	1021.000	ug/L	2	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	250.0000	ug/L	0	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	505.1000	ug/L	1	10	
Lead	250.0000	252.0000	ug/L	1	10	
Magnesium	1000.000	1034.000	ug/L	3	10	
Manganese	50.00000	50.40000	ug/L	1	10	
Molybdenum	500.0000	503.0000	ug/L	1	10	
Nickel	250.0000	255.0000	ug/L	2	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	50.70000	ug/L	1	10	
Thallium	250.0000	248.0000	ug/L	-1	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	252.0000	ug/L	1	10	
Zinc	50.00000	50.10000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350004

Run Name :
Filename : tr212705

Injected : 06-AUG-2003 07:28
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	112.5000	ug/L	13	50
Antimony	60.00000	68.70000	ug/L	15	50
Arsenic	5.000000	5.770000	ug/L	15	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	1.810000	ug/L	-10	50
Cadmium	5.000000	4.790000	ug/L	-4	50
Chromium	10.00000	9.650000	ug/L	-4	50
Cobalt	20.00000	19.40000	ug/L	-3	50
Copper	10.00000	10.20000	ug/L	2	50
Iron	100.0000	106.0000	ug/L	6	50
Lead	3.000000	1.580000	ug/L	-47	50
Manganese	10.00000	9.820000	ug/L	-2	50
Molybdenum	20.00000	19.90000	ug/L	-1	50
Nickel	20.00000	20.10000	ug/L	1	50
Selenium	5.000000	5.890000	ug/L	18	50
Silver	5.000000	5.470000	ug/L	9	50
Thallium	5.000000	4.530000	ug/L	-9	50
Vanadium	10.00000	10.50000	ug/L	5	50
Zinc	20.00000	20.50000	ug/L	3	50

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350013

Run Name :
Filename : tr212714

Injected : 06-AUG-2003 08:23
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	502.0000	ug/L	0		10	
Antimony		500.0000	540.0000	ug/L	8		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	497.0000	ug/L	-1		10	
Beryllium		50.00000	51.20000	ug/L	2		10	
Cadmium		50.00000	49.40000	ug/L	-1		10	
Calcium		1000.000	1034.000	ug/L	3		10	
Chromium		100.0000	102.0000	ug/L	2		10	
Cobalt		250.0000	251.0000	ug/L	0		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	512.7000	ug/L	3		10	
Lead		250.0000	252.0000	ug/L	1		10	
Magnesium		1000.000	1042.000	ug/L	4		10	
Manganese		50.00000	50.90000	ug/L	2		10	
Molybdenum		500.0000	508.0000	ug/L	2		10	
Nickel		250.0000	253.0000	ug/L	1		10	
Selenium		250.0000	238.0000	ug/L	-5		10	
Silver		50.00000	50.90000	ug/L	2		10	
Thallium		250.0000	242.0000	ug/L	-3		10	
Titanium		500.0000	511.0000	ug/L	2		10	
Vanadium		250.0000	252.0000	ug/L	1		10	
Zinc		50.00000	49.30000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350025

Run Name :
Filename : tr212726

Injected : 06-AUG-2003 09:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	759.3000	ug/L	1		10	
Antimony		750.0000	787.0000	ug/L	5		10	
Arsenic		375.0000	385.0000	ug/L	3		10	
Barium		750.0000	746.0000	ug/L	-1		10	
Beryllium		75.00000	78.00000	ug/L	4		10	
Cadmium		75.00000	73.90000	ug/L	-1		10	
Calcium		1500.000	1582.000	ug/L	5		10	
Chromium		150.0000	154.0000	ug/L	3		10	
Cobalt		375.0000	376.0000	ug/L	0		10	
Copper		150.0000	156.0000	ug/L	4		10	
Iron		750.0000	769.4000	ug/L	3		10	
Lead		375.0000	375.0000	ug/L	0		10	
Magnesium		1500.000	1571.000	ug/L	5		10	
Manganese		75.00000	77.20000	ug/L	3		10	
Molybdenum		750.0000	770.0000	ug/L	3		10	
Nickel		375.0000	380.0000	ug/L	1		10	
Selenium		375.0000	367.0000	ug/L	-2		10	
Silver		75.00000	75.60000	ug/L	1		10	
Thallium		375.0000	360.0000	ug/L	-4		10	
Titanium		750.0000	768.0000	ug/L	2		10	
Vanadium		375.0000	380.0000	ug/L	1		10	
Zinc		75.00000	74.10000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350036

Run Name :
Filename : tr212737

Injected : 06-AUG-2003 10:50
Caltype :

Standards: 03WS1152

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	231.6000	ug/L	-7		10	
Antimony		250.0000	272.0000	ug/L	9		10	
Arsenic		125.0000	122.0000	ug/L	-2		10	
Barium		250.0000	253.0000	ug/L	1		10	
Beryllium		25.00000	23.70000	ug/L	-5		10	
Cadmium		25.00000	24.30000	ug/L	-3		10	
Calcium		500.0000	477.7000	ug/L	-4		10	
Chromium		50.00000	49.50000	ug/L	-1		10	
Cobalt		125.0000	121.0000	ug/L	-3		10	
Copper		50.00000	51.00000	ug/L	2		10	
Iron		250.0000	239.4000	ug/L	-4		10	
Lead		125.0000	119.0000	ug/L	-5		10	
Magnesium		500.0000	482.1000	ug/L	-4		10	
Manganese		25.00000	24.10000	ug/L	-4		10	
Molybdenum		250.0000	244.0000	ug/L	-2		10	
Nickel		125.0000	124.0000	ug/L	-1		10	
Selenium		125.0000	118.0000	ug/L	-6		10	
Silver		25.00000	24.80000	ug/L	-1		10	
Thallium		125.0000	116.0000	ug/L	-7		10	
Titanium		250.0000	251.0000	ug/L	0		10	
Vanadium		125.0000	123.0000	ug/L	-2		10	
Zinc		25.00000	24.10000	ug/L	-4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350047

Run Name :
Filename : tr212748

Injected : 06-AUG-2003 11:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	706.6000	ug/L	-6	10	
Antimony		750.0000	750.0000	ug/L	0	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	753.0000	ug/L	0	10	
Beryllium		75.00000	74.00000	ug/L	-1	10	
Cadmium		75.00000	73.20000	ug/L	-2	10	
Calcium		1500.000	1444.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	764.9000	ug/L	2	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1471.000	ug/L	-2	10	
Manganese		75.00000	72.90000	ug/L	-3	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	354.0000	ug/L	-6	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	370.0000	ug/L	-1	10	
Zinc		75.00000	71.60000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350059

Run Name :
Filename : tr212760

Injected : 06-AUG-2003 12:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	455.5000	ug/L	-9	10	
Antimony		500.0000	482.0000	ug/L	-4	10	
Arsenic		250.0000	243.0000	ug/L	-3	10	
Barium		500.0000	497.0000	ug/L	-1	10	
Beryllium		50.00000	48.30000	ug/L	-3	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	963.1000	ug/L	-4	10	
Chromium		100.0000	98.50000	ug/L	-2	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	483.7000	ug/L	-3	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	972.8000	ug/L	-3	10	
Manganese		50.00000	48.00000	ug/L	-4	10	
Molybdenum		500.0000	492.0000	ug/L	-2	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	231.0000	ug/L	-8	10	
Silver		50.00000	48.80000	ug/L	-2	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		250.0000	239.0000	ug/L	-4	10	
Vanadium		500.0000	496.0000	ug/L	-1	10	
Zinc		250.0000	244.0000	ug/L	-2	10	
		50.00000	47.10000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350070

Run Name :
Filename : tr212771

Injected : 06-AUG-2003 13:15
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	685.5000	ug/L	-9		10	
Antimony		750.0000	759.0000	ug/L	1		10	
Arsenic		375.0000	372.0000	ug/L	-1		10	
Barium		750.0000	754.0000	ug/L	1		10	
Beryllium		75.00000	74.20000	ug/L	-1		10	
Cadmium		75.00000	73.70000	ug/L	-2		10	
Calcium		1500.000	1443.000	ug/L	-4		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	366.0000	ug/L	-2		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	715.2000	ug/L	-5		10	
Lead		375.0000	367.0000	ug/L	-2		10	
Magnesium		1500.000	1469.000	ug/L	-2		10	
Manganese		75.00000	72.30000	ug/L	-4		10	
Molybdenum		750.0000	750.0000	ug/L	0		10	
Nickel		375.0000	376.0000	ug/L	0		10	
Selenium		375.0000	357.0000	ug/L	-5		10	
Silver		75.00000	77.70000	ug/L	4		10	
Thallium		375.0000	361.0000	ug/L	-4		10	
Titanium		750.0000	745.0000	ug/L	-1		10	
Vanadium		375.0000	370.0000	ug/L	-1		10	
Zinc		75.00000	71.60000	ug/L	-5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350082

Run Name :
Filename : tr212784

Injected : 06-AUG-2003 14:08
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	702.1000	ug/L	-6	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	74.40000	ug/L	-1	10	
Cadmium		75.00000	73.00000	ug/L	-3	10	
Calcium		1500.000	1439.000	ug/L	-4	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	737.1000	ug/L	-2	10	
Lead		375.0000	356.0000	ug/L	-5	10	
Magnesium		1500.000	1464.000	ug/L	-2	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	741.0000	ug/L	-1	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	352.0000	ug/L	-6	10	
Silver		75.00000	79.10000	ug/L	5	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.40000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350094

Run Name :
Filename : tr212796

Injected : 06-AUG-2003 15:05
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	688.1000	ug/L	-8	10	
Antimony		750.0000	751.0000	ug/L	0	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	72.80000	ug/L	-3	10	
Calcium		1500.000	1441.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	711.5000	ug/L	-5	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	72.30000	ug/L	-4	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	349.0000	ug/L	-7	10	
Silver		75.00000	80.40000	ug/L	7	10	
Thallium		375.0000	356.0000	ug/L	-5	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	71.20000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350106

Run Name :
Filename : tr212809

Injected : 06-AUG-2003 16:03
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	443.2000	ug/L	-11	10	1 ***
Antimony		500.0000	482.0000	ug/L	-4	10	
Arsenic		250.0000	241.0000	ug/L	-4	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	48.00000	ug/L	-4	10	
Cadmium		50.00000	47.30000	ug/L	-5	10	
Calcium		1000.000	938.5000	ug/L	-6	10	
Chromium		100.0000	97.40000	ug/L	-3	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	466.3000	ug/L	-7	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	954.1000	ug/L	-5	10	
Manganese		50.00000	47.20000	ug/L	-6	10	
Molybdenum		500.0000	491.0000	ug/L	-2	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	226.0000	ug/L	-10	10	
Silver		50.00000	49.00000	ug/L	-2	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	495.0000	ug/L	-1	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	46.80000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350118

Run Name :
Filename : tr212821

Injected : 06-AUG-2003 16:52
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	479.7000	ug/L	-4	10	
Antimony		500.0000	540.0000	ug/L	8	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	487.0000	ug/L	-3	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	48.30000	ug/L	-3	10	
Calcium		1000.000	1032.000	ug/L	3	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	501.0000	ug/L	0	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1011.000	ug/L	1	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	237.0000	ug/L	-5	10	
Silver		50.00000	49.90000	ug/L	0	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	48.30000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350130

Run Name :
Filename : tr212834

Injected : 06-AUG-2003 18:24
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	483.3000	ug/L	-3	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	486.0000	ug/L	-3	10	
Beryllium		50.00000	50.60000	ug/L	1	10	
Cadmium		50.00000	49.70000	ug/L	-1	10	
Calcium		1000.000	986.5000	ug/L	-1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	531.0000	ug/L	6	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	49.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350143

Run Name :
Filename : tr212847

Injected : 06-AUG-2003 19:27
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	457.3000	ug/L	-9	10	
Antimony		500.0000	457.0000	ug/L	-9	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	478.0000	ug/L	-4	10	
Beryllium		50.00000	48.80000	ug/L	-2	10	
Cadmium		50.00000	48.40000	ug/L	-3	10	
Calcium		1000.000	925.4000	ug/L	-7	10	
Chromium		100.0000	97.10000	ug/L	-3	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	96.80000	ug/L	-3	10	
Iron		500.0000	500.3000	ug/L	0	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	964.9000	ug/L	-4	10	
Manganese		50.00000	47.30000	ug/L	-5	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	236.0000	ug/L	-6	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	235.0000	ug/L	-6	10	
Titanium		500.0000	485.0000	ug/L	-3	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	47.90000	ug/L	-4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350154

Run Name :
Filename : tr212858

Injected : 06-AUG-2003 20:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	425.3000	ug/L	-15	10	1 ***
Antimony		500.0000	447.0000	ug/L	-11	10	1 ***
Arsenic		250.0000	239.0000	ug/L	-4	10	
Barium		500.0000	469.0000	ug/L	-6	10	
Beryllium		50.00000	46.80000	ug/L	-6	10	
Cadmium		50.00000	46.90000	ug/L	-6	10	
Calcium		1000.000	870.9000	ug/L	-13	10	1 ***
Chromium		100.0000	94.70000	ug/L	-5	10	
Cobalt		250.0000	232.0000	ug/L	-7	10	
Copper		100.0000	94.00000	ug/L	-6	10	
Iron		500.0000	470.4000	ug/L	-6	10	
Lead		250.0000	229.0000	ug/L	-8	10	
Magnesium		1000.000	920.0000	ug/L	-8	10	
Manganese		50.00000	45.00000	ug/L	-10	10	
Molybdenum		500.0000	465.0000	ug/L	-7	10	
Nickel		250.0000	237.0000	ug/L	-5	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	45.90000	ug/L	-8	10	
Thallium		250.0000	232.0000	ug/L	-7	10	
Titanium		500.0000	466.0000	ug/L	-7	10	
Vanadium		250.0000	230.0000	ug/L	-8	10	
Zinc		50.00000	46.20000	ug/L	-8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350165

Run Name :
Filename : tr212869

Injected : 06-AUG-2003 21:17
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	444.1000	ug/L	-11	10	1 ***
Antimony		500.0000	456.0000	ug/L	-9	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	473.0000	ug/L	-5	10	
Beryllium		50.00000	48.40000	ug/L	-3	10	
Cadmium		50.00000	48.00000	ug/L	-4	10	
Calcium		1000.000	923.7000	ug/L	-8	10	
Chromium		100.0000	96.60000	ug/L	-3	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	95.80000	ug/L	-4	10	
Iron		500.0000	489.0000	ug/L	-2	10	
Lead		250.0000	238.0000	ug/L	-5	10	
Magnesium		1000.000	956.3000	ug/L	-4	10	
Manganese		50.00000	47.00000	ug/L	-6	10	
Molybdenum		500.0000	479.0000	ug/L	-4	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	235.0000	ug/L	-6	10	
Silver		50.00000	47.30000	ug/L	-5	10	
Thallium		250.0000	233.0000	ug/L	-7	10	
Titanium		500.0000	478.0000	ug/L	-4	10	
Vanadium		250.0000	237.0000	ug/L	-5	10	
Zinc		50.00000	48.80000	ug/L	-2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350003
Filename: tr212704

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 06-AUG-2003 07:23

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[1.2910]	100.0000		ug/L	<	RL
Antimony	[2.9100]	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.2400]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[0.2810]	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	[0.2060]	10.00000		ug/L	<	RL
Copper	[0.0450]	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[1.7860]	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	[3.6900]	20.00000		ug/L	<	RL
Nickel	[0.3930]	20.00000		ug/L	<	RL
Selenium	[4.1100]	5.000000		ug/L	<	RL
Silver	[0.3740]	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[0.3890]	10.00000		ug/L	<	RL
Vanadium	[0.2940]	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350014
Filename: tr212715

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 08:27

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[3.9700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1060]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[1.1290]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.0590]		10.00000	ug/L	<	RL
Iron	[3.1380]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[2.0840]		500.0000	ug/L	<	RL
Manganese	[0.0560]		10.00000	ug/L	<	RL
Molybdenum	[2.1600]		20.00000	ug/L	<	RL
Nickel	[0.1390]		20.00000	ug/L	<	RL
Selenium	[3.2400]		5.000000	ug/L	<	RL
Silver	[0.2160]		5.000000	ug/L	<	RL
Thallium	[3.8300]		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350026
Filename: tr212727

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 09:44

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.2183]	100.0000	ug/L	<RL		
Antimony	[5.7700]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.2300]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0040]	5.000000	ug/L	<RL		
Calcium	[0.6589]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.4370]	10.00000	ug/L	<RL		
Copper	[0.4220]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.2740]	500.0000	ug/L	<RL		
Manganese	[0.0110]	10.00000	ug/L	<RL		
Molybdenum	[4.9900]	20.00000	ug/L	<RL		
Nickel	[0.4680]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.8200]	5.000000	ug/L	<RL		
Titanium	[1.2800]	10.00000	ug/L	<RL		
Vanadium	[0.2280]	10.00000	ug/L	<RL		
Zinc	[0.1520]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350037
Filename: tr212738

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 10:57

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[2.1300]		60.00000	ug/L	<	RL
Arsenic	[0.3450]		5.000000	ug/L	<	RL
Barium	[0.1000]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[0.4354]		500.0000	ug/L	<	RL
Chromium	[0.1570]		10.00000	ug/L	<	RL
Cobalt	[0.3470]		10.00000	ug/L	<	RL
Copper	[0.7360]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[0.6982]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[0.8670]		20.00000	ug/L	<	RL
Nickel	[0.7410]		20.00000	ug/L	<	RL
Selenium	[0.4420]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.4380]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350048
Filename: tr212749

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 11:45

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.6390]	100.0000	ug/L	<RL		
Antimony	[13.300]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.3390]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[6.8070]	500.0000	ug/L	<RL		
Chromium	[0.0330]	10.00000	ug/L	<RL		
Cobalt	[0.4820]	10.00000	ug/L	<RL		
Copper	[0.9730]	10.00000	ug/L	<RL		
Iron	[11.060]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.0760]	500.0000	ug/L	<RL		
Manganese	[0.1690]	10.00000	ug/L	<RL		
Molybdenum	[6.3000]	20.00000	ug/L	<RL		
Nickel	[0.6500]	20.00000	ug/L	<RL		
Selenium	[0.4350]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.7800]	5.000000	ug/L	<RL		
Titanium	[1.6300]	10.00000	ug/L	<RL		
Vanadium	[0.3650]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350060
Filename: tr212761

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 12:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.2085]	100.0000	ug/L	<RL		
Antimony	[8.3900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0990]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.6105]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2220]	10.00000	ug/L	<RL		
Copper	[0.6460]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[1.4100]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[1.6600]	20.00000	ug/L	<RL		
Nickel	[0.5110]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.2700]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.1030]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350071
Filename: tr212772

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 13:19

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[13.900]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2770]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[1.8330]		500.0000	ug/L	<	RL
Chromium	[0.0670]		10.00000	ug/L	<	RL
Cobalt	[0.3950]		10.00000	ug/L	<	RL
Copper	[0.8620]		10.00000	ug/L	<	RL
Iron	[1.5260]		100.0000	ug/L	<	RL
Lead	[0.9050]		3.000000	ug/L	<	RL
Magnesium	[0.2800]		500.0000	ug/L	<	RL
Manganese	[0.0080]		10.00000	ug/L	<	RL
Molybdenum	[6.3100]		20.00000	ug/L	<	RL
Nickel	[0.6780]		20.00000	ug/L	<	RL
Selenium	[0.6850]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[3.0200]		5.000000	ug/L	<	RL
Titanium	[0.3510]		10.00000	ug/L	<	RL
Vanadium	[0.3760]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350083
Filename: tr212785

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 14:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.3810]	100.0000	ug/L	<RL		
Antimony	[22.900]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.3960]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[3.7540]	500.0000	ug/L	<RL		
Chromium	[0.3020]	10.00000	ug/L	<RL		
Cobalt	[0.3950]	10.00000	ug/L	<RL		
Copper	[1.1700]	10.00000	ug/L	<RL		
Iron	[13.980]	100.0000	ug/L	<RL		
Lead	[0.4270]	3.000000	ug/L	<RL		
Magnesium	[4.0540]	500.0000	ug/L	<RL		
Manganese	[0.1690]	10.00000	ug/L	<RL		
Molybdenum	[9.6800]	20.00000	ug/L	<RL		
Nickel	[0.7860]	20.00000	ug/L	<RL		
Selenium	[0.2330]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.3800]	10.00000	ug/L	<RL		
Vanadium	[0.4500]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350095
Filename: tr212797

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 15:12

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[12.300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2680]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[2.5300]		500.0000	ug/L	<	RL
Chromium	[0.2130]		10.00000	ug/L	<	RL
Cobalt	[0.3470]		10.00000	ug/L	<	RL
Copper	[0.9870]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.0120]		3.000000	ug/L	<	RL
Magnesium	[0.9781]		500.0000	ug/L	<	RL
Manganese	[0.0540]		10.00000	ug/L	<	RL
Molybdenum	[3.5400]		20.00000	ug/L	<	RL
Nickel	[0.8950]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	[0.0250]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[0.2570]		10.00000	ug/L	<	RL
Vanadium	[0.4380]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350107
Filename: tr212810

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 16:09

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[10.300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.2020]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[0.5227]		500.0000	ug/L	<	RL
Chromium	[0.1460]		10.00000	ug/L	<	RL
Cobalt	[0.1060]		10.00000	ug/L	<	RL
Copper	[0.8340]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[0.5579]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[2.2800]		20.00000	ug/L	<	RL
Nickel	[0.5100]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[1.6100]		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.2630]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350119
Filename: tr212822

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 17:13

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.5700]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.0780]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	[0.0350]		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.6530]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.0200]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[0.5100]		20.00000	ug/L	<	RL
Nickel	[0.4210]		20.00000	ug/L	<	RL
Selenium	[1.5100]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.2190]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350132
Filename: tr212836

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 18:36

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.1240]	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[1.4170]	500.0000		ug/L	<	RL
Chromium	[1.5500]	10.00000		ug/L	<	RL
Cobalt	[0.0500]	10.00000		ug/L	<	RL
Copper	[0.5680]	10.00000		ug/L	<	RL
Iron	[22.760]	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[0.7424]	500.0000		ug/L	<	RL
Manganese	[0.2020]	10.00000		ug/L	<	RL
Molybdenum	[1.3200]	20.00000		ug/L	<	RL
Nickel	[0.4110]	20.00000		ug/L	<	RL
Selenium	[1.2900]	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	ND	10.00000		ug/L	<	RL
Vanadium	[0.1730]	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350145
Filename: tr212849

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 19:38.

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	[0.0970]	10.00000		ug/L	<	RL
Beryllium	[0.3520]	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[1.4160]	500.0000		ug/L	<	RL
Chromium	[0.9220]	10.00000		ug/L	<	RL
Cobalt	[0.2000]	10.00000		ug/L	<	RL
Copper	[0.2000]	10.00000		ug/L	<	RL
Iron	[16.280]	100.0000		ug/L	<	RL
Lead	[0.8730]	3.000000		ug/L	<	RL
Magnesium	[0.0026]	500.0000		ug/L	<	RL
Manganese	[0.0710]	10.00000		ug/L	<	RL
Molybdenum	[0.6870]	20.00000		ug/L	<	RL
Nickel	[0.3040]	20.00000		ug/L	<	RL
Selenium	[1.2000]	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	[2.3300]	5.000000		ug/L	<	RL
Titanium	ND	10.00000		ug/L	<	RL
Vanadium	[0.1200]	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350156
Filename: tr212860

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 20:32

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1010]		10.00000	ug/L	<	RL
Beryllium	[0.5810]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[0.4746]		500.0000	ug/L	<	RL
Chromium	[1.4100]		10.00000	ug/L	<	RL
Cobalt	[0.1900]		10.00000	ug/L	<	RL
Copper	[0.2150]		10.00000	ug/L	<	RL
Iron	[17.120]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[1.4810]		500.0000	ug/L	<	RL
Manganese	[0.0930]		10.00000	ug/L	<	RL
Molybdenum	ND		20.00000	ug/L	<	RL
Nickel	[0.3680]		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	ND		10.00000	ug/L	<	RL
Vanadium	[0.3930]		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73314350167
Filename: tr212871

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 06-AUG-2003 21:29

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1290]	10.00000	ug/L	<RL		
Beryllium	[0.2430]	2.000000	ug/L	<RL		
Cadmium	[0.0220]	5.000000	ug/L	<RL		
Calcium	[2.2650]	500.0000	ug/L	<RL		
Chromium	[2.0300]	10.00000	ug/L	<RL		
Cobalt	[0.2110]	10.00000	ug/L	<RL		
Copper	[0.2640]	10.00000	ug/L	<RL		
Iron	[23.220]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[0.1514]	500.0000	ug/L	<RL		
Manganese	[0.2780]	10.00000	ug/L	<RL		
Molybdenum	[0.7070]	20.00000	ug/L	<RL		
Nickel	[0.8080]	20.00000	ug/L	<RL		
Selenium	[0.0800]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[2.8700]	5.000000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	[0.3030]	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350005

Run Name :
Filename : tr212706

Injected : 06-AUG-2003 07:43
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	465200.0	ug/L	-7			
Antimony	500.0000	466.0000	ug/L	-7	20		
Arsenic	500.0000	481.0000	ug/L	-4	20		
Barium	500.0000	450.0000	ug/L	-10	20		
Beryllium	500.0000	426.0000	ug/L	-15	20		
Cadmium	1000.000	820.0000	ug/L	-18	20		
Calcium	500000.0	376200.0	ug/L	-25			
Chromium	500.0000	414.0000	ug/L	-17	20		
Cobalt	500.0000	410.0000	ug/L	-18	20		
Copper	500.0000	485.0000	ug/L	-3	20		
Iron	200000.0	164000.0	ug/L	-18			
Lead	1000.000	896.0000	ug/L	-10	20		
Magnesium	500000.0	465700.0	ug/L	-7			
Manganese	500.0000	429.0000	ug/L	-14	20		
Molybdenum	500.0000	436.0000	ug/L	-13	20		
Nickel	1000.000	889.0000	ug/L	-11	20		
Selenium	500.0000	456.0000	ug/L	-9	20		
Silver	1000.000	888.0000	ug/L	-11	20		
Thallium	500.0000	416.0000	ug/L	-17	20		
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	432.0000	ug/L	-14	20		
Zinc	1000.000	882.0000	ug/L	-12	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350093

Run Name :
Filename : tr212795

Injected : 06-AUG-2003 14:48
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	445100.0	ug/L	-11			
Antimony	500.0000	438.0000	ug/L	-12	20		
Arsenic	500.0000	465.0000	ug/L	-7	20		
Barium	500.0000	462.0000	ug/L	-8	20		
Beryllium	500.0000	418.0000	ug/L	-16	20		
Cadmium	1000.000	807.0000	ug/L	-19	20		
Calcium	500000.0	358400.0	ug/L	-28			
Chromium	500.0000	414.0000	ug/L	-17	20		
Cobalt	500.0000	405.0000	ug/L	-19	20		
Copper	500.0000	487.0000	ug/L	-3	20		
Iron	200000.0	157700.0	ug/L	-21			
Lead	1000.000	892.0000	ug/L	-11	20		
Magnesium	500000.0	442200.0	ug/L	-12			
Manganese	500.0000	422.0000	ug/L	-16	20		
Molybdenum	500.0000	425.0000	ug/L	-15	20		
Nickel	1000.000	887.0000	ug/L	-11	20		
Selenium	500.0000	430.0000	ug/L	-14	20		
Silver	1000.000	960.0000	ug/L	-4	20		
Thallium	500.0000	417.0000	ug/L	-17	20		
Titanium	20000.00	1790.000	ug/L	-91			
Vanadium	500.0000	431.0000	ug/L	-14	20		
Zinc	1000.000	867.0000	ug/L	-13	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350157

Run Name :
Filename : tr212861

Injected : 06-AUG-2003 20:36
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	432500.0	ug/L	-14		20	
Antimony	500.0000	442.0000	ug/L	-12		20	
Arsenic	500.0000	484.0000	ug/L	-3		20	
Barium	500.0000	437.0000	ug/L	-13		20	
Beryllium	500.0000	414.0000	ug/L	-17		20	
Cadmium	500.0000	414.0000	ug/L	-16		20	
Calcium	1000.000	844.0000	ug/L	-30			
Chromium	500000.0	349500.0	ug/L	-17		20	
Cobalt	500.0000	413.0000	ug/L	-17		20	
Copper	500.0000	462.0000	ug/L	-8		20	
Iron	500.0000	462.0000	ug/L	-20			
Lead	200000.0	160500.0	ug/L	-9		20	
Magnesium	1000.000	914.0000	ug/L	-10			
Manganese	500000.0	448900.0	ug/L	-17		20	
Molybdenum	500.0000	415.0000	ug/L	-14		20	
Nickel	500.0000	432.0000	ug/L	-10		20	
Selenium	1000.000	904.0000	ug/L	-10		20	
Silver	500.0000	448.0000	ug/L	-8		20	
Thallium	1000.000	923.0000	ug/L	-14		20	
Titanium	500.0000	430.0000	ug/L	-91			
Vanadium	20000.00	1740.000	ug/L	-15		20	
Zinc	500.0000	427.0000	ug/L	-10		20	
	1000.000	905.0000	ug/L				

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73314350168

Run Name :
Filename : tr212872

Injected : 06-AUG-2003 21:33
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	439300.0	ug/L	-12			
Antimony	500.0000	447.0000	ug/L	-11	20		
Arsenic	500.0000	482.0000	ug/L	-4	20		
Barium	500.0000	437.0000	ug/L	-13	20		
Beryllium	500.0000	418.0000	ug/L	-16	20		
Cadmium	1000.000	839.0000	ug/L	-16	20		
Calcium	500000.0	355800.0	ug/L	-29			
Chromium	500.0000	416.0000	ug/L	-17	20		
Cobalt	500.0000	415.0000	ug/L	-17	20		
Copper	500.0000	466.0000	ug/L	-7	20		
Iron	200000.0	161900.0	ug/L	-19			
Lead	1000.000	911.0000	ug/L	-9	20		
Magnesium	500000.0	451900.0	ug/L	-10			
Manganese	500.0000	421.0000	ug/L	-16	20		
Molybdenum	500.0000	429.0000	ug/L	-14	20		
Nickel	1000.000	902.0000	ug/L	-10	20		
Selenium	500.0000	447.0000	ug/L	-11	20		
Silver	1000.000	932.0000	ug/L	-7	20		
Thallium	500.0000	430.0000	ug/L	-14	20		
Titanium	20000.00	1750.000	ug/L	-91			
Vanadium	500.0000	430.0000	ug/L	-14	20		
Zinc	1000.000	902.0000	ug/L	-10	20		

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	tr212702	CS				06-AUG-2003 07:10 1.0	1.0	1.0				1	
002	tr212703	ICV				06-AUG-2003 07:15 1.0	1.0	1.0				2	
003	tr212704	ICB				06-AUG-2003 07:23 1.0	1.0	1.0				3	
004	tr212705	CRI				06-AUG-2003 07:28 1.0	1.0	1.0				4	4:MG=465700
005	tr212706	ICSAB				06-AUG-2003 07:43 1.0	1.0	50.0					
006	tr212707	BS	QC221247	83421	Soil	06-AUG-2003 07:49 1.0	1.0	50.0					
007	tr212708	BSD	QC221248	83421	Soil	06-AUG-2003 07:53 1.0	1.0	37.73585					2:FE=213000
008	tr212709	MS	QC221249	83421	Soil	06-AUG-2003 07:57 1.0	1.0	48.54369	1	2			2:FE=202200
009	tr212710	MSD	QC221250	83421	Soil	06-AUG-2003 08:01 1.0	1.0	41.15226					2:FE=161500
010	tr212711	MS	QC221252	83421	Soil	06-AUG-2003 08:05 1.0	1.0	44.24779					2:FE=163900
011	tr212712	MSD	QC221253	83421	Soil	06-AUG-2003 08:08 1.0	1.0	50.0					
012	tr212713	BLANK	QC221389	83456	Soil	06-AUG-2003 08:19 1.0	1.0	1.0				5	
013	tr212714	CCV				06-AUG-2003 08:23 1.0	1.0	1.0					
014	tr212715	CCB				06-AUG-2003 08:27 1.0	1.0	50.0					
015	tr212716	BS	QC221390	83456	Soil	06-AUG-2003 08:32 1.0	1.0	50.0					1:FE=153100
016	tr212717	BSD	QC221391	83456	Soil	06-AUG-2003 08:36 1.0	1.0	45.04505	1				2:FE=177500
017	tr212718	MSS	166727-002	83456	Soil	06-AUG-2003 08:41 1.0	1.0	45.04505	1				2:FE=204500
018	tr212719	SER	QC221412	83456	Soil	06-AUG-2003 08:52 5.0	1.0	47.84689					2:FE=160000
019	tr212720	MS	QC221392	83456	Soil	06-AUG-2003 08:56 1.0	1.0	42.91845		1			1:FE=161900
020	tr212721	MSD	QC221393	83456	Soil	06-AUG-2003 09:00 1.0	1.0	47.39336					1:FE=140500
021	tr212722	SAMPLE	166727-003	83456	Soil	06-AUG-2003 09:05 1.0	1.0	39.84064					1:FE=162200
022	tr212723	SAMPLE	166727-004	83456	Soil	06-AUG-2003 09:09 1.0	1.0	49.01961					
023	tr212724	SAMPLE	166727-005	83456	Soil	06-AUG-2003 09:13 1.0	1.0	45.66210					
024	tr212725	SAMPLE	166727-006	83456	Soil	06-AUG-2003 09:17 1.0	1.0	1.0				6	
025	tr212726	CCV				06-AUG-2003 09:41 1.0	1.0	1.0					
026	tr212727	CCB				06-AUG-2003 09:44 1.0	1.0	45.04505				7	2:FE=167200
027	tr212728	PDS	QC221419	83456	Soil	06-AUG-2003 09:49 1.0	1.0	44.84305					2:FE=192500
028	tr212729	SAMPLE	166727-007	83456	Soil	06-AUG-2003 09:53 1.0	1.0	48.07692					1:FE=159100
029	tr212730	SAMPLE	166727-008	83456	Soil	06-AUG-2003 09:57 1.0	1.0	40.32258					3:FE=195400
030	tr212731	SAMPLE	166727-009	83456	Soil	06-AUG-2003 10:23 1.0	1.0	39.37008					2:FE=184100
031	tr212732	SAMPLE	166727-010	83456	Soil	06-AUG-2003 10:27 1.0	1.0	41.15226					3:FE=188500
032	tr212733	SAMPLE	166727-011	83456	Soil	06-AUG-2003 10:31 1.0	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: McV Date: 8/6/03
Page 1 of 6

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350

Instrument: MET07

TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
033	tr212734	SAMPLE	166727-012	83456	Soil	06-AUG-2003 10:35	1.0	48.54369				1:FE=143700	
034	tr212735	SAMPLE	166727-013	83456	Soil	06-AUG-2003 10:39	1.0	44.64286				2:FE=154400	
035	tr212736	BLANK	QC221370	83452	Soil	06-AUG-2003 10:45	1.0	50.0					
036	tr212737	CCV				06-AUG-2003 10:50	1.0	1.0				9	
037	tr212738	CCB				06-AUG-2003 10:57	1.0	1.0					
038	tr212739	BS	QC221371	83452	Soil	06-AUG-2003 11:01	1.0	50.0					
039	tr212740	BSD	QC221372	83452	Soil	06-AUG-2003 11:04	1.0	50.0				1:FE=113600	
040	tr212741	MSS	166645-025	83452	Soil	06-AUG-2003 11:08	1.0	47.39336					
041	tr212742	SER	QC221375	83452	Soil	06-AUG-2003 11:13	5.0	47.39336					
042	tr212743	MSS	166645-025	83452	Soil	06-AUG-2003 11:18	10.0	47.39336					
043	tr212744	SER	QC221375	83452	Soil	06-AUG-2003 11:21	50.0	43.47826				1:FE=127400	
044	tr212745	MS	QC221373	83452	Soil	06-AUG-2003 11:27	1.0	45.24887				1:FE=129400	
045	tr212746	MSD	QC221374	83452	Soil	06-AUG-2003 11:31	1.0	41.49378				1:FE=100900	
046	tr212747	SAMPLE	166645-011	83452	Soil	06-AUG-2003 11:34	1.0	1.0				6	
047	tr212748	CCV				06-AUG-2003 11:41	1.0	1.0					
048	tr212749	CCB				06-AUG-2003 11:45	1.0	1.0					
049	tr212750	SAMPLE	166645-018	83452	Soil	06-AUG-2003 11:49	1.0	37.73585				1:FE=155000	
050	tr212751	SAMPLE	166645-024	83452	Soil	06-AUG-2003 11:53	1.0	41.32231				1:FE=129500	
051	tr212752	SAMPLE	166706-001	83452	Soil	06-AUG-2003 11:56	1.0	34.60208				2:AL=249800	
052	tr212753	SAMPLE	166706-002	83452	Soil	06-AUG-2003 12:00	1.0	49.75124				1:PB=55100.0	
053	tr212754	SAMPLE	166706-003	83452	Soil	06-AUG-2003 12:03	1.0	46.29630				5:FE=218000	
054	tr212755	SAMPLE	166706-002	83452	Soil	06-AUG-2003 12:07	20.0	49.75124					
055	tr212756	SAMPLE	166706-003	83452	Soil	06-AUG-2003 12:10	20.0	46.29630				1:PB=80700.0	
056	tr212757	SAMPLE	166705-001	83452	Soil	06-AUG-2003 12:14	20.0	37.73585					
057	tr212758	SAMPLE	166645-011	83452	Soil	06-AUG-2003 12:18	10.0	41.49378					
058	tr212759	SAMPLE	166645-018	83452	Soil	06-AUG-2003 12:22	10.0	37.73585					
059	tr212760	CCV				06-AUG-2003 12:26	1.0	1.0				5	
060	tr212761	CCB				06-AUG-2003 12:34	1.0	1.0					
061	tr212762	BLANK	QC221383	83455	Water	06-AUG-2003 12:43	1.0	1.0					
062	tr212763	BS	QC221384	83455	Water	06-AUG-2003 12:47	1.0	1.0					
063	tr212764	BSD	QC221385	83455	Water	06-AUG-2003 12:50	1.0	1.0					
064	tr212765	MSS	166726-001	83455	Water	06-AUG-2003 12:54	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS286 8=03SSS287 9=03WS1152

Analyst: Meuser Date: 8/6/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73314350 Instrument: MET07 TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample Num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
065	tr212766	MS	QC221386	83455	Water	06-AUG-2003 12:57	1.0	1.0					
066	tr212767	MSD	QC221387	83455	Water	06-AUG-2003 13:01	1.0	1.0					
067	tr212768	SAMPLE	166726-010	83455	Water	06-AUG-2003 13:04	1.0	1.0					
068	tr212769	SAMPLE	166727-001	83455	Water	06-AUG-2003 13:08	1.0	1.0					
069	tr212770	SAMPLE	166727-014	83455	Water	06-AUG-2003 13:11	1.0	1.0					
070	tr212771	CCV				06-AUG-2003 13:15	1.0	1.0					
071	tr212772	CCB				06-AUG-2003 13:19	1.0	1.0					
072	tr212773	SAMPLE	166706-003	83452	Soil	06-AUG-2003 13:23	40.0	46.29630					
073	tr212774	SAMPLE	166645-024	83452	Soil	06-AUG-2003 13:28	10.0	41.32231					
074	tr212775	BLANK	QC221394	83457	Soil	06-AUG-2003 13:34	1.0	50.0					
075	tr212776	BS	QC221395	83457	Soil	06-AUG-2003 13:37	1.0	50.0					
076	tr212777	BSD	QC221396	83457	Soil	06-AUG-2003 13:40	1.0	50.0					
077	tr212778	MSS	166726-002	83457	Soil	06-AUG-2003 13:44	1.0	49.26108	2				
078	tr212779	MS	QC221397	83457	Soil	06-AUG-2003 13:47	1.0	48.78049					
079	tr212780	MSD	QC221398	83457	Soil	06-AUG-2003 13:51	1.0	47.39336					
080	tr212781	SAMPLE	166726-003	83457	Soil	06-AUG-2003 13:55	1.0	42.55319					
081	tr212782	SAMPLE	166726-004	83457	Soil	06-AUG-2003 13:58	1.0	46.29630					
082	tr212784	CCV				06-AUG-2003 14:08	1.0	1.0					
083	tr212785	CCB				06-AUG-2003 14:12	1.0	1.0					
084	tr212786	SER	QC221410	83457	Soil	06-AUG-2003 14:15	5.0	49.26108					
085	tr212787	SAMPLE	166726-005	83457	Soil	06-AUG-2003 14:19	1.0	48.07692					
086	tr212788	SAMPLE	166726-006	83457	Soil	06-AUG-2003 14:23	1.0	44.44444					
087	tr212789	SAMPLE	166726-007	83457	Soil	06-AUG-2003 14:26	1.0	47.84689					
088	tr212790	SAMPLE	166726-008	83457	Soil	06-AUG-2003 14:30	1.0	43.29004					
089	tr212791	SAMPLE	166726-009	83457	Soil	06-AUG-2003 14:33	1.0	44.64286					
090	tr212792	SAMPLE	166726-011	83457	Soil	06-AUG-2003 14:37	1.0	43.47826					
091	tr212793	SAMPLE	166726-012	83457	Soil	06-AUG-2003 14:40	1.0	49.01961					
092	tr212794	SAMPLE	166726-013	83457	Soil	06-AUG-2003 14:44	1.0	42.55319					
093	tr212795	ICCSAB				06-AUG-2003 14:48	1.0	1.0					
094	tr212796	CCV				06-AUG-2003 15:05	1.0	1.0					
095	tr212797	CCB				06-AUG-2003 15:12	1.0	1.0					
096	tr212798	BLANK	QC221358	83448	Wide	06-AUG-2003 15:16	1.0	50.0	1				

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SSS286 8=03SSS287 9=03WS1152

Analyst: Meiela Date: 8/6/03
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SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350

Instrument: MET07

TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
097	tr212799	BS	QC221359	83448	Wipe	06-AUG-2003 15:19	1.0	50.0	1				
098	tr212800	BSD	QC221360	83448	Wipe	06-AUG-2003 15:22	1.0	50.0	1				
099	tr212801	SAMPLE	166670-001	83448	Wipe	06-AUG-2003 15:26	1.0	50.0					
100	tr212802	SAMPLE	166671-001	83448	Wipe	06-AUG-2003 15:30	1.0	50.0					
101	tr212803	BLANK	QC221338	83444	Water	06-AUG-2003 15:36	1.0	1.0	1				
102	tr212804	BS	QC221339	83444	Water	06-AUG-2003 15:41	1.0	1.0	1				
103	tr212805	BSD	QC221340	83444	Water	06-AUG-2003 15:44	1.0	1.0	1				
104	tr212806	MSS	166677-001	83444	Water	06-AUG-2003 15:48	1.0	1.0	1				
105	tr212807	MS	QC221341	83444	Water	06-AUG-2003 15:51	1.0	1.0					
106	tr212809	CCV				06-AUG-2003 16:03	1.0	1.0	1				
107	tr212810	CCB				06-AUG-2003 16:09	1.0	1.0					
108	tr212811	MSD	QC221342	83444	Water	06-AUG-2003 16:14	1.0	1.0					
109	tr212812	SAMPLE	166677-002	83444	Water	06-AUG-2003 16:17	1.0	1.0					
110	tr212813	SAMPLE	166677-003	83444	Water	06-AUG-2003 16:21	1.0	1.0					
111	tr212814	SAMPLE	166677-004	83444	Water	06-AUG-2003 16:24	1.0	1.0					
112	tr212815	SAMPLE	166677-005	83444	Water	06-AUG-2003 16:28	1.0	1.0					
113	tr212816	SAMPLE	166677-006	83444	Water	06-AUG-2003 16:31	1.0	1.0					
114	tr212817	SAMPLE	166677-007	83444	Water	06-AUG-2003 16:35	1.0	1.0					
115	tr212818	SAMPLE	166677-008	83444	Water	06-AUG-2003 16:38	1.0	1.0					
116	tr212819	SAMPLE	166677-009	83444	Water	06-AUG-2003 16:42	1.0	1.0					
117	tr212820	SAMPLE	166677-010	83444	Water	06-AUG-2003 16:45	1.0	1.0					
118	tr212821	CCV				06-AUG-2003 16:52	1.0	1.0					
119	tr212822	CCB				06-AUG-2003 17:13	1.0	1.0					
120	tr212824	BLANK	QC221487	83482	Soil	06-AUG-2003 17:32	1.0	50.0					
121	tr212825	BS	QC221488	83482	Soil	06-AUG-2003 17:36	1.0	50.0					
122	tr212826	BSD	QC221489	83482	Soil	06-AUG-2003 17:40	1.0	50.0					
123	tr212827	MSS	166682-007	83482	Soil	06-AUG-2003 17:47	1.0	46.51163	3				
124	tr212828	SER	QC221492	83482	Soil	06-AUG-2003 17:53	5.0	46.51163					
125	tr212829	MS	QC221490	83482	Soil	06-AUG-2003 17:58	1.0	49.01961	1				
126	tr212830	MSD	QC221491	83482	Soil	06-AUG-2003 18:02	1.0	46.72897					
127	tr212831	MSS	166682-010	83482	Soil	06-AUG-2003 18:08	1.0	47.84689	2				
128	tr212832	MS	QC221493	83482	Soil	06-AUG-2003 18:12	1.0	46.51163					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Meila Date: 8/6/03
Page 4 of 6

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73314350

Instrument: MET07

TJA Trace ICP

Begun: 06-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used
129	tr212833	MSD	QC221494	83482	Soil	06-AUG-2003 18:16	1.0	45.24887				5
130	tr212834	CCV				06-AUG-2003 18:24	1.0	1.0				
131	tr212835	X	rinse			06-AUG-2003 18:32	1.0	1.0				
132	tr212836	CCB				06-AUG-2003 18:36	1.0	1.0				
133	tr212837	SAMPLE	166668-011	83482	Soil	06-AUG-2003 18:40	1.0	45.24887	1			1:FE=134000
134	tr212838	SAMPLE	166668-012	83482	Soil	06-AUG-2003 18:45	1.0	46.29630	1			1:FE=137200
135	tr212839	SAMPLE	166682-001	83482	Soil	06-AUG-2003 18:49	1.0	46.94836	1			4:FE=308900
136	tr212840	SAMPLE	166682-003	83482	Soil	06-AUG-2003 18:53	1.0	44.84305				2:FE=153800
137	tr212841	SAMPLE	166682-006	83482	Soil	06-AUG-2003 18:57	1.0	43.10345				1:FE=173400
138	tr212842	SAMPLE	166682-008	83482	Soil	06-AUG-2003 19:02	1.0	45.04505				2:FE=221600
139	tr212843	SAMPLE	166682-009	83482	Soil	06-AUG-2003 19:06	1.0	41.32231				2:FE=253700
140	tr212844	SAMPLE	166682-011	83482	Soil	06-AUG-2003 19:10	1.0	46.08295				2:FE=257700
141	tr212845	SAMPLE	166682-012	83482	Soil	06-AUG-2003 19:15	1.0	46.94836				2:FE=223400
142	tr212846	SAMPLE	166682-015	83482	Soil	06-AUG-2003 19:19	1.0	47.39336				2:FE=181800
143	tr212847	CCV				06-AUG-2003 19:27	1.0	1.0				5
144	tr212848	X	rinse			06-AUG-2003 19:33	1.0	1.0				
145	tr212849	CCB				06-AUG-2003 19:38	1.0	1.0				
146	tr212850	SAMPLE	166682-016	83482	Soil	06-AUG-2003 19:42	1.0	45.87156	1			2:FE=251200
147	tr212851	SAMPLE	166682-017	83482	Soil	06-AUG-2003 19:46	1.0	43.66812	1			2:FE=284700
148	tr212852	SAMPLE	166682-018	83482	Soil	06-AUG-2003 19:50	1.0	49.75124	1			2:FE=236200
149	tr212853	SAMPLE	166682-019	83482	Soil	06-AUG-2003 19:55	1.0	42.91845	1			2:FE=313900
150	tr212854	SAMPLE	166711-001	83482	Miscel	06-AUG-2003 19:59	1.0	46.94836				
151	tr212855	SAMPLE	166711-002	83482	Miscel	06-AUG-2003 20:03	1.0	48.30918				
152	tr212856	SAMPLE	166711-003	83482	Miscel	06-AUG-2003 20:08	1.0	44.44444				
153	tr212857	SAMPLE	166711-004	83482	Miscel	06-AUG-2003 20:12	1.0	47.16981				
154	tr212858	CCV				06-AUG-2003 20:20	1.0	1.0	3			5
155	tr212859	X	rinse			06-AUG-2003 20:27	1.0	1.0				
156	tr212860	CCB				06-AUG-2003 20:32	1.0	1.0				
157	tr212861	ICsAB				06-AUG-2003 20:36	1.0	1.0				4
158	tr212862	SAMPLE	166677-011	83444	Water	06-AUG-2003 20:44	1.0	1.0				
159	tr212863	SAMPLE	166677-012	83444	Water	06-AUG-2003 20:48	1.0	1.0				
160	tr212864	SAMPLE	166677-013	83444	Water	06-AUG-2003 20:52	1.0	1.0				1:CA=353400

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: McVick Date: 8/6/03

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 73314350

Instrument: MET07

TJA Trace ICP

Begun: 06-AUG-2003

#	Filename Type	Sample Num	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
161	tr212865	SAMPLE	166677-014	83444	Water	06-AUG-2003 20:56	1.0	1.0				
162	tr212866	SAMPLE	166677-015	83444	Water	06-AUG-2003 21:01	1.0	1.0				1:ZN=3540.00
163	tr212867	SAMPLE	166701-001	83444	Water	06-AUG-2003 21:05	1.0	1.0	1			
164	tr212868	SAMPLE	166701-002	83444	Water	06-AUG-2003 21:09	1.0	1.0			5	
165	tr212869	CCV				06-AUG-2003 21:17	1.0	1.0				
166	tr212870	X				06-AUG-2003 21:25	1.0	1.0				
167	tr212871	CCB				06-AUG-2003 21:29	1.0	1.0				
168	tr212872	ICSAB				06-AUG-2003 21:33	1.0	1.0			4	4:MG=451900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287 9=03WS1152

Analyst: Mei Wu Date: 8/6/03

Standardization Rpt.

Method: 6010B Standard: blank
 Run Time: 08/07/03 09:43:36

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	-.0000	.0007	.0001	.0007	-.0004	.0008	.0003
SDev	.0004	.0042	.0002	.0002	.0002	.0004	.0004
%RSD	21960.	609.5	141.4	29.16	47.95	47.95	141.4
#1	.0003	.0036	.0000	.0006	-.0003	.0006	.0000
#2	-.0003	-.0023	.0003	.0008	-.0006	.0011	.0006
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0020	.0006	-.0001	-.0025	.0006	-.0003	.0030
SDev	.0004	.0008	.0006	.0032	.0008	.0004	.0026
%RSD	21.09	141.4	431.7	125.9	141.4	141.4	88.11
#1	.0017	.0000	-.0006	-.0003	.0011	-.0006	.0011
#2	.0023	.0011	.0003	-.0048	.0000	.0000	.0048
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.0001	.0014	.0015	.1686	.0007	-.0020	.0000
SDev	.0006	.0004	.0002	.0008	.0006	.0020	.0000
%RSD	417.1	27.41	13.76	.4987	85.43	101.5	.0000
#1	-.0003	.0017	.0014	.1692	.0003	-.0006	.0000
#2	.0006	.0011	.0017	.1680	.0011	-.0034	.0000
Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	
Avge	.0160	.0120	.0004	.0024	.0000	.0049	
SDev	.0005	.0011	.0026	.0018	.0004	.0025	
%RSD	3.392	8.960	629.5	75.52	21960.	51.74	
#1	.0156	.0128	.0022	.0011	-.0003	.0067	
#2	.0163	.0113	-.0014	.0037	.0003	.0031	

Method: 6010B Standard: cs hi
 Run Time: 08/07/03 09:46:15

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.4346	1.192	9.566	.2558	2.961	.8716	.6449
SDev	.0009	.011	.026	.0009	.001	.0023	.0014
%RSD	.2197	.8987	.2757	.3606	.0372	.2673	.2243
#1	.4339	1.185	9.584	.2565	2.962	.8733	.6460
#2	.4353	1.200	9.547	.2552	2.960	.8700	.6439
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.055	.2640	2.016	1.616	.4429	.1513	.6176
SDev	.003	.0006	.005	.018	.0004	.0004	.0001
%RSD	.2443	.2077	.2472	1.129	.0913	.2621	.0101
#1	1.056	.2644	2.013	1.603	.4432	.1515	.6176
#2	1.053	.2636	2.020	1.628	.4426	.1510	.6175
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.6626	1.617	2.599	37.64	4.836	7.096	1.216
SDev	.0011	.002	.005	.02	.015	.023	.002
%RSD	.1638	.1467	.2089	.0606	.3100	.3301	.1823
#1	.6634	1.619	2.603	37.66	4.847	7.113	1.217
#2	.6619	1.615	2.595	37.62	4.825	7.080	1.214
Elem	K_7664	Na5889					
Avge	.6287	6.031					
SDev	.0012	.023					
%RSD	.1960	.3870					
#1	.6296	6.048					
#2	.6279	6.015					

Method: 6010B Standard: STD4
Run Time: 08/07/03 09:48:03

Elem	Sn1899	B_2496	Ti3349	P_1782	S_1820	Si2881
Avge	2.571	1.478	7.473	.8744	.1261	.2429
SDev	.014	.005	.004	.0011	.0016	.0023
%RSD	.5468	.3053	.0519	.1297	1.260	.9464
#1	2.561	1.481	7.476	.8752	.1272	.2445
#2	2.581	1.475	7.471	.8736	.1250	.2413

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	23089.0	.041645	08/07/03 09:46:15
As1890	189.042	Multiple	Standards	8391.46	-5.71605	08/07/03 09:46:15
Ba4934	493.409	Multiple	Standards	2090.84	-.294651	08/07/03 09:46:15
Be3130	313.042	Multiple	Standards	2037.16	-1.42808	08/07/03 09:46:15
Cd2288	228.802	Multiple	Standards	3387.66	1.42610	08/07/03 09:46:15
Cr2677	267.716	Multiple	Standards	2300.35	-1.93676	08/07/03 09:46:15
Co2286	228.616	Multiple	Standards	7804.42	-2.19967	08/07/03 09:46:15
Cu3247	324.754	Multiple	Standards	2379.27	-4.66841	08/07/03 09:46:15
Pb2203	220.353	Multiple	Standards	38146.0	-21.5028	08/07/03 09:46:15
Mo2020	202.030	Multiple	Standards	4960.80	.681203	08/07/03 09:46:15
Ni2316	231.604	Multiple	Standards	3089.74	7.83198	08/07/03 09:46:15
Se1960	196.026	Multiple	Standards	22557.8	-12.5530	08/07/03 09:46:15
Ag3280	328.068	Multiple	Standards	6454.82	1.79600	08/07/03 09:46:15
Tl1908	190.864	Multiple	Standards	16277.0	-48.0528	08/07/03 09:46:15
V_2924	292.402	Multiple	Standards	7408.98	-1.05747	08/07/03 09:46:15
Zn2138	213.856	Multiple	Standards	3087.33	-4.31739	08/07/03 09:46:15
Al3961	396.153	Multiple	Standards	7803.40	-12.0262	08/07/03 09:46:15
Ca3179	317.933	Multiple	Standards	1334.36	-224.942	08/07/03 09:46:15
Fe2599	259.940	Multiple	Standards	2068.15	-1.45353	08/07/03 09:46:15
Mg2790	279.079	Multiple	Standards	7011.95	13.8089	08/07/03 09:46:15
Mn2576	257.610	Multiple	Standards	4111.70	-.000000	08/07/03 09:46:15
K_7664	766.491	Multiple	Standards	81597.6	-1302.65	08/07/03 09:46:15
Na5889	588.995	Multiple	Standards	8306.44	-99.9807	08/07/03 09:46:15
Sn1899	189.989	STD4	blank	3889.83	-1.58839	08/07/03 09:48:03
B_2496	249.678	STD4	blank	6776.22	-16.1850	08/07/03 09:48:03
Ti3349	334.941	STD4	blank	1338.09	-.002414	08/07/03 09:48:03
P_1782	178.287	STD4	blank	11500.2	-56.2252	08/07/03 09:48:03
S_1820	182.040	STD4	STD1-Blank	189.668	-13.9216	08/07/03 09:48:03
Si2881	288.158	STD4	STD1-Blank	18801.2	-5262.44	*08/07/03 09:48:03

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951001

Run Name :
Filename : icp159828

Injected : 07-AUG-2003 09:51
Caltpe :

Standards: 03WS1092

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	19950.00	ug/L	0	5	
Antimony	10000.00	9971.000	ug/L	0	5	
Arsenic	10000.00	10040.00	ug/L	0	5	
Barium	20000.00	19970.00	ug/L	0	5	
Beryllium	500.0000	497.5000	ug/L	-1	5	
Cadmium	10000.00	9968.000	ug/L	0	5	
Calcium	50000.00	49640.00	ug/L	-1	5	
Chromium	2000.000	1978.000	ug/L	-1	5	
Cobalt	5000.000	4975.000	ug/L	-1	5	
Copper	2500.000	2497.000	ug/L	0	5	
Iron	10000.00	9928.000	ug/L	-1	5	
Lead	10000.00	9940.000	ug/L	-1	5	
Magnesium	50000.00	49910.00	ug/L	0	5	
Manganese	5000.000	4961.000	ug/L	-1	5	
Molybdenum	10000.00	9902.000	ug/L	-1	5	
Nickel	5000.000	4950.000	ug/L	-1	5	
Potassium	50000.00	49630.00	ug/L	-1	5	
Selenium	10000.00	9934.000	ug/L	-1	5	
Silver	1000.000	996.4000	ug/L	0	5	
Sodium	50000.00	50190.00	ug/L	0	5	
Thallium	10000.00	10060.00	ug/L	1	5	
Vanadium	5000.000	4970.000	ug/L	-1	5	
Zinc	5000.000	4971.000	ug/L	-1	5	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951002

Run Name :
Filename : icp159829

Injected : 07-AUG-2003 09:54
Caltype :

Standards: .03WS1120

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Boron	10000.00	9888.000	ug/L	-1	5	
Phosphorus	10000.00	10020.00	ug/L	0	5	
Silicon	10000.00	-713.400	ug/L	-107	5	# ***
Tin	10000.00	9784.000	ug/L	-2	5	
Titanium	10000.00	9852.000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951003

Run Name :
Filename : icp159830

Injected : 07-AUG-2003 09:57
Caltype :

Standards: 03WS1094

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	1006.000	ug/L	1	10		
Antimony	2000.000	2000.000	ug/L	0	10		
Arsenic	2000.000	1964.000	ug/L	-2	10		
Barium	1000.000	1028.000	ug/L	3	10		
Beryllium	2000.000	1973.000	ug/L	-1	10		
Boron	1000.000	1006.000	ug/L	1	10		
Cadmium	2000.000	2033.000	ug/L	2	10		
Calcium	2000.000	2067.000	ug/L	3	10		
Chromium	2000.000	2057.000	ug/L	3	10		
Cobalt	2000.000	2083.000	ug/L	4	10		
Copper	2000.000	2072.000	ug/L	4	10		
Iron	2000.000	2072.000	ug/L	4	10		
Lead	2000.000	1995.000	ug/L	0	10		
Magnesium	2000.000	2082.000	ug/L	4	10		
Manganese	2000.000	2073.000	ug/L	4	10		
Molybdenum	2000.000	2056.000	ug/L	3	10		
Nickel	2000.000	2106.000	ug/L	5	10		
Potassium	10000.00	10230.00	ug/L	2	10		
Selenium	2000.000	1991.000	ug/L	0	10		
Silver	1000.000	1013.000	ug/L	1	10		
Sodium	10000.00	10360.00	ug/L	4	10		
Thallium	2000.000	2034.000	ug/L	2	10		
Titanium	2000.000	2053.000	ug/L	3	10		
Vanadium	2000.000	2049.000	ug/L	2	10		
Zinc	2000.000	2072.000	ug/L	4	10		

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951004

Run Name :
Filename : icp159831

Injected : 07-AUG-2003 10:00
Caltype :

Standards: .03WS1121

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Boron	5000.000	5119.000	ug/L	2	10	
Phosphorus	5000.000	5106.000	ug/L	2	10	
Silicon	5000.000	-0.46390	ug/L	-100	10	v ***
Tin	5000.000	4986.000	ug/L	0	10	
Titanium	5000.000	5083.000	ug/L	2	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951006

Run Name :
Filename : icp159833

Injected : 07-AUG-2003 10:08
Caltype :

Standards: 03WS1227

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	108.2000	ug/L	8	50	
Antimony	60.00000	53.85000	ug/L	-10	50	
Arsenic	500.0000	451.8000	ug/L	-10	50	
Barium	10.00000	10.02000	ug/L	0	50	
Beryllium	2.000000	1.329000	ug/L	-34	50	
Boron	20.00000	61.51000	ug/L	208	50	# ***
Cadmium	5.000000	5.220000	ug/L	4	50	
Calcium	500.0000	525.8000	ug/L	5	50	
Chromium	10.00000	11.92000	ug/L	19	50	
Cobalt	20.00000	16.03000	ug/L	-20	50	
Copper	10.00000	8.359000	ug/L	-16	50	
Iron	100.0000	129.5000	ug/L	30	50	
Lead	300.0000	317.7000	ug/L	6	50	
Magnesium	500.0000	534.1000	ug/L	7	50	
Manganese	10.00000	9.577000	ug/L	-4	50	
Molybdenum	20.00000	25.80000	ug/L	29	50	
Nickel	20.00000	28.63000	ug/L	43	50	
Phosphorus	100.0000	98.60000	ug/L	-1	50	
Potassium	500.0000	726.7000	ug/L	45	50	
Selenium	500.0000	503.7000	ug/L	1	50	
Silver	5.000000	4.434000	ug/L	-11	50	
Sodium	500.0000	507.6000	ug/L	2	50	
Thallium	500.0000	484.8000	ug/L	-3	50	
Tin	40.00000	31.43000	ug/L	-21	50	
Titanium	10.00000	10.26000	ug/L	3	50	
Vanadium	10.00000	9.292000	ug/L	-7	50	
Zinc	20.00000	21.83000	ug/L	9	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951016

Run Name :
Filename : icp159843

Injected : 07-AUG-2003 11:42
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	969.3000	ug/L	-3		10	
Antimony		2000.000	1993.000	ug/L	0		10	
Arsenic		2000.000	1974.000	ug/L	-1		10	
Barium		1000.000	971.4000	ug/L	-3		10	
Beryllium		2000.000	1911.000	ug/L	-4		10	
Boron		1000.000	2058.000	ug/L	106		10	1 ***
Cadmium		2000.000	2102.000	ug/L	5		10	
Calcium		2000.000	2115.000	ug/L	6		10	
Chromium		2000.000	2008.000	ug/L	0		10	
Cobalt		2000.000	2065.000	ug/L	3		10	
Copper		2000.000	1980.000	ug/L	-1		10	
Iron		2000.000	2025.000	ug/L	1		10	
Lead		2000.000	2004.000	ug/L	0		10	
Magnesium		2000.000	1990.000	ug/L	-1		10	
Manganese		2000.000	2051.000	ug/L	3		10	
Molybdenum		2000.000	2056.000	ug/L	3		10	
Nickel		2000.000	2085.000	ug/L	4		10	
Potassium		10000.00	9452.000	ug/L	-5		10	
Selenium		2000.000	1885.000	ug/L	-6		10	
Silver		1000.000	1018.000	ug/L	2		10	
Sodium		10000.00	10090.00	ug/L	1		10	
Thallium		2000.000	2064.000	ug/L	3		10	
Titanium		2000.000	1943.000	ug/L	-3		10	
Vanadium		2000.000	2028.000	ug/L	1		10	
Zinc		2000.000	2103.000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951017

Run Name :
Filename : icp159844

Injected : 07-AUG-2003 11:46
Caltype :

Standards: 03WS1122

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Boron		5000.000	6472.000	ug/L	29	10	1 ***
Phosphorus		5000.000	5053.000	ug/L	1	10	
Silicon		5000.000	12830.00	ug/L	157	10	1 ***
Tin		5000.000	5143.000	ug/L	3	10	
Titanium		5000.000	5147.000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951029

Run Name :
Filename : icp159856

Injected : 07-AUG-2003 12:22
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	992.3000	ug/L	-1	10	
Antimony		2000.000	1928.000	ug/L	-4	10	
Arsenic		2000.000	1975.000	ug/L	-1	10	
Barium		1000.000	999.7000	ug/L	0	10	
Beryllium		2000.000	1956.000	ug/L	-2	10	
Boron		1000.000	2636.000	ug/L	164	10	1 ***
Cadmium		2000.000	2036.000	ug/L	2	10	
Calcium		2000.000	2085.000	ug/L	4	10	
Chromium		2000.000	1951.000	ug/L	-2	10	
Cobalt		2000.000	2027.000	ug/L	1	10	
Copper		2000.000	2014.000	ug/L	1	10	
Iron		2000.000	2032.000	ug/L	2	10	
Lead		2000.000	1992.000	ug/L	0	10	
Magnesium		2000.000	2004.000	ug/L	0	10	
Manganese		2000.000	2017.000	ug/L	1	10	
Molybdenum		2000.000	2039.000	ug/L	2	10	
Nickel		2000.000	2053.000	ug/L	3	10	
Potassium		10000.00	9747.000	ug/L	-3	10	
Selenium		2000.000	1901.000	ug/L	-5	10	
Silver		1000.000	1003.000	ug/L	0	10	
Sodium		10000.00	10500.00	ug/L	5	10	
Thallium		2000.000	2035.000	ug/L	2	10	
Titanium		2000.000	2020.000	ug/L	1	10	
Vanadium		2000.000	2017.000	ug/L	1	10	
Zinc		2000.000	2051.000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951030

Run Name :
Filename : icp159857

Injected : 07-AUG-2003 12:25
Caltype :

Standards: 03WS1122

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Boron		5000.000	6944.000	ug/L	39	10	1 ***
Phosphorus		5000.000	5212.000	ug/L	4	10	
Silicon		5000.000	9737.000	ug/L	95	10	1 ***
Tin		5000.000	5033.000	ug/L	1	10	
Titanium		5000.000	5125.000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951042

Run Name :
Filename : icp159869

Injected : 07-AUG-2003 13:20
Caltpe :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	957.0000	ug/L	-4		10	
Antimony		2000.000	1826.000	ug/L	-9		10	
Arsenic		2000.000	1919.000	ug/L	-4		10	
Barium		1000.000	1006.000	ug/L	1		10	
Beryllium		2000.000	1957.000	ug/L	-2		10	
Boron		1000.000	3510.000	ug/L	251		10	1 ***
Cadmium		2000.000	1927.000	ug/L	-4		10	
Calcium		2000.000	1972.000	ug/L	-1		10	
Chromium		2000.000	1881.000	ug/L	-6		10	
Cobalt		2000.000	1956.000	ug/L	-2		10	
Copper		2000.000	2020.000	ug/L	1		10	
Iron		2000.000	1951.000	ug/L	-2		10	
Lead		2000.000	1913.000	ug/L	-4		10	
Magnesium		2000.000	1958.000	ug/L	-2		10	
Manganese		2000.000	1951.000	ug/L	-2		10	
Molybdenum		2000.000	1982.000	ug/L	-1		10	
Nickel		2000.000	2048.000	ug/L	2		10	
Potassium		10000.00	9798.000	ug/L	-2		10	
Selenium		2000.000	1891.000	ug/L	-5		10	
Silver		1000.000	975.3000	ug/L	-2		10	
Sodium		10000.00	10470.00	ug/L	5		10	
Thallium		2000.000	2043.000	ug/L	2		10	
Titanium		2000.000	1979.000	ug/L	-1		10	
Vanadium		2000.000	1971.000	ug/L	-1		10	
Zinc		2000.000	1974.000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951055

Run Name :
Filename : icp159882

Injected : 07-AUG-2003 14:10
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	977.4000	ug/L	-2	10	
Antimony		2000.000	1845.000	ug/L	-8	10	
Arsenic		2000.000	1921.000	ug/L	-4	10	
Barium		1000.000	1026.000	ug/L	3	10	
Beryllium		2000.000	1983.000	ug/L	-1	10	
Boron		1000.000	4457.000	ug/L	346	10	1 ***
Cadmium		2000.000	1944.000	ug/L	-3	10	
Calcium		2000.000	2002.000	ug/L	0	10	
Chromium		2000.000	1885.000	ug/L	-6	10	
Cobalt		2000.000	1972.000	ug/L	-1	10	
Copper		2000.000	2039.000	ug/L	2	10	
Iron		2000.000	1968.000	ug/L	-2	10	
Lead		2000.000	1928.000	ug/L	-4	10	
Magnesium		2000.000	2012.000	ug/L	1	10	
Manganese		2000.000	1957.000	ug/L	-2	10	
Molybdenum		2000.000	2032.000	ug/L	2	10	
Nickel		2000.000	2056.000	ug/L	3	10	
Potassium		10000.00	9666.000	ug/L	-3	10	
Selenium		2000.000	1887.000	ug/L	-6	10	
Silver		1000.000	984.9000	ug/L	-2	10	
Sodium		10000.00	10520.00	ug/L	5	10	
Thallium		2000.000	2117.000	ug/L	6	10	
Titanium		2000.000	1992.000	ug/L	0	10	
Vanadium		2000.000	1996.000	ug/L	0	10	
Zinc		2000.000	1988.000	ug/L	-1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951005
Filename: icp159832

TJA ICP
Run Name:
Blank Type: ICB

Injected: 07-AUG-2003 10:03

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[9.9860]		60.00000	ug/L	<RL	
Arsenic	ND		500.0000	ug/L	<RL	
Barium	[0.0024]		10.00000	ug/L	<RL	
Beryllium	[0.8866]		2.000000	ug/L	<RL	
Boron	[11.480]		100.0000	ug/L	<RL	
Cadmium	[1.4510]		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		20.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[2.3950]		100.0000	ug/L	<RL	
Lead	ND		300.0000	ug/L	<RL	
Magnesium	[13.910]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	[7.7580]		20.00000	ug/L	<RL	
Nickel	[9.1850]		20.00000	ug/L	<RL	
Phosphorus	[7.8700]		100.0000	ug/L	<RL	
Potassium	[165.50]		500.0000	ug/L	<RL	
Selenium	[0.4134]		500.0000	ug/L	<RL	
Silicon	ND		200.0000	ug/L	<RL	
Silver	[0.8926]		5.000000	ug/L	<RL	
Sodium	[24.520]		500.0000	ug/L	<RL	
Sulfide	10.39000		1.000000	mg/L	<RL	d ***
Thallium	ND		500.0000	ug/L	<RL	
Tin	[6.7250]		40.00000	ug/L	<RL	
Titanium	[5.7300]		10.00000	ug/L	<RL	
Vanadium	[3.2440]		10.00000	ug/L	<RL	
Zinc	[0.0899]		20.00000	ug/L	<RL	

d=blank contam/missing

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951018
Filename: icp159845

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 11:51

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[16.240]	60.00000	ug/L	<RL	
Arsenic	[29.830]	500.0000	ug/L	<RL	
Barium	[0.5908]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	1424.000	100.0000	ug/L	<RL	d ***
Cadmium	[0.8556]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[1.0610]	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	[10.010]	500.0000	ug/L	<RL	
Manganese	[1.1580]	10.00000	ug/L	<RL	
Molybdenum	[9.1040]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	[73.800]	100.0000	ug/L	<RL	
Potassium	[398.00]	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	d ***
Silicon	8479.000	200.0000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Sodium	[7.9720]	500.0000	ug/L	<RL	
Sulfide	8.661000	1.000000	mg/L	<RL	d ***
Thallium	ND	500.0000	ug/L	<RL	
Tin	[39.250]	40.00000	ug/L	<RL	
Titanium	11.49000	10.00000	ug/L	<RL	d ***
Vanadium	[0.0809]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951031
Filename: icp159858

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 12:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[25.390]		60.00000	ug/L	<RL	
Arsenic	ND		500.0000	ug/L	<RL	
Barium	[0.5644]		10.00000	ug/L	<RL	
Beryllium	[0.2428]		2.000000	ug/L	<RL	
Boron	1829.000		100.0000	ug/L	<RL	d ***
Cadmium	[2.4120]		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	[5.3580]		20.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	[20.300]		300.0000	ug/L	<RL	
Magnesium	[7.2850]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	[8.8460]		20.00000	ug/L	<RL	
Nickel	[4.5950]		20.00000	ug/L	<RL	
Phosphorus	[61.120]		100.0000	ug/L	<RL	
Potassium	ND		500.0000	ug/L	<RL	
Selenium	ND		500.0000	ug/L	<RL	
Silicon	8611.000		200.0000	ug/L	<RL	d ***
Silver	ND		5.000000	ug/L	<RL	
Sodium	[5.6240]		500.0000	ug/L	<RL	
Sulfide	8.563000		1.000000	mg/L	<RL	d ***
Thallium	ND		500.0000	ug/L	<RL	
Tin	54.16000		40.00000	ug/L	<RL	d ***
Titanium	[5.5690]		10.00000	ug/L	<RL	
Vanadium	[0.0386]		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951043
Filename: icp159870

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 13:24

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[11.720]		60.00000	ug/L	<RL	
Arsenic	ND		500.0000	ug/L	<RL	
Barium	[0.2349]		10.00000	ug/L	<RL	
Beryllium	[0.3862]		2.000000	ug/L	<RL	
Boron	2537.000		100.0000	ug/L	<RL	d ***
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	[0.3922]		10.00000	ug/L	<RL	
Cobalt	[0.2021]		20.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	[7.5200]		300.0000	ug/L	<RL	
Magnesium	[10.360]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	[6.9840]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Phosphorus	[41.540]		100.0000	ug/L	<RL	
Potassium	ND		500.0000	ug/L	<RL	
Selenium	ND		500.0000	ug/L	<RL	
Silicon	3092.000		200.0000	ug/L	<RL	d ***
Silver	ND		5.000000	ug/L	<RL	
Sodium	ND		500.0000	ug/L	<RL	
Sulfide	10.58000		1.000000	mg/L	<RL	d ***
Thallium	ND		500.0000	ug/L	<RL	
Tin	[9.1630]		40.00000	ug/L	<RL	
Titanium	[0.3539]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13315951056
Filename: icp159883

TJA ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 14:27

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[11.790]	500.0000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Boron	3498.000	100.0000	ug/L	<RL	d	***
Cadmium	[0.1316]	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[4.1170]	20.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	300.0000	ug/L	<RL		
Magnesium	[19.100]	500.0000	ug/L	<RL		
Manganese	[1.0170]	10.00000	ug/L	<RL		
Molybdenum	[4.3490]	20.00000	ug/L	<RL		
Nickel	[3.2840]	20.00000	ug/L	<RL		
Phosphorus	[25.680]	100.0000	ug/L	<RL		
Potassium	[91.110]	500.0000	ug/L	<RL		
Selenium	ND	500.0000	ug/L	<RL		
Silicon	1324.000	200.0000	ug/L	<RL	d	***
Silver	ND	5.000000	ug/L	<RL		
Sodium	ND	500.0000	ug/L	<RL		
Sulfide	7.277000	1.000000	mg/L	<RL	d	***
Thallium	ND	500.0000	ug/L	<RL		
Tin	[1.2600]	40.00000	ug/L	<RL		
Titanium	ND	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951007

Run Name :
Filename : icp159834

Injected : 07-AUG-2003 10:21
Caltype :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	543400.0	ug/L	9		
Antimony	2000.000	2017.000	ug/L	1	20	
Arsenic	2000.000	1925.000	ug/L	-4	20	
Barium	500.0000	482.1000	ug/L	-4	20	
Beryllium	500.0000	474.5000	ug/L	-5	20	
Cadmium	1000.000	963.9000	ug/L	-4	20	
Calcium	500000.0	3011000	ug/L	502		
Chromium	500.0000	477.2000	ug/L	-5	20	
Cobalt	500.0000	495.6000	ug/L	-1	20	
Copper	500.0000	498.4000	ug/L	0	20	
Iron	200000.0	184600.0	ug/L	-8		
Lead	1000.000	922.0000	ug/L	-8	20	
Magnesium	500000.0	501100.0	ug/L	0		
Manganese	500.0000	500.9000	ug/L	0	20	
Molybdenum	500.0000	440.2000	ug/L	-12	20	
Nickel	1000.000	962.8000	ug/L	-4	20	
Selenium	2000.000	2105.000	ug/L	5	20	
Silver	1000.000	968.6000	ug/L	-3	20	
Thallium	2000.000	2016.000	ug/L	1	20	
Titanium	2000.000	1946.000	ug/L	-3	20	
Vanadium	500.0000	469.0000	ug/L	-6	20	
Zinc	1000.000	985.3000	ug/L	-1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13315951057

Run Name :
Filename : icp159884

Injected : 07-AUG-2003 14:41
Caltype :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	539300.0	ug/L	8		
Antimony	2000.000	1844.000	ug/L	-8	20	
Arsenic	2000.000	1935.000	ug/L	-3	20	
Barium	500.0000	493.3000	ug/L	-1	20	
Beryllium	500.0000	485.5000	ug/L	-3	20	
Cadmium	1000.000	944.6000	ug/L	-6	20	
Calcium	500000.0	2710000	ug/L	442		
Chromium	500.0000	444.4000	ug/L	-11	20	
Cobalt	500.0000	473.4000	ug/L	-5	20	
Copper	500.0000	501.5000	ug/L	0	20	
Iron	200000.0	178000.0	ug/L	-11		
Lead	1000.000	1059.000	ug/L	6	20	
Magnesium	500000.0	489600.0	ug/L	-2		
Manganese	500.0000	485.8000	ug/L	-3	20	
Molybdenum	500.0000	446.8000	ug/L	-11	20	
Nickel	1000.000	911.0000	ug/L	-9	20	
Selenium	2000.000	1943.000	ug/L	-3	20	
Silver	1000.000	953.1000	ug/L	-5	20	
Thallium	2000.000	2005.000	ug/L	0	20	
Titanium	2000.000	1939.000	ug/L	-3	20	
Vanadium	500.0000	471.0000	ug/L	-6	20	
Zinc	1000.000	949.4000	ug/L	-5	20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

TJA ICP

Instrument: MET01

Sequence: 13315951

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	icp15982	CS				07-AUG-2003	09:51	1.0				1	1:S=17.3800	
002	icp15982	CS				07-AUG-2003	09:54	1.0				2	1:S=11.3700	
003	icp15983	ICV				07-AUG-2003	09:57	1.0				3	1:S=11.7100	
004	icp15983	ICV				07-AUG-2003	10:00	1.0				4	1:S=11.6900	
005	icp15983	ICB				07-AUG-2003	10:03	1.0				5	1:S=10.3900	
006	icp15983	CRI				07-AUG-2003	10:08	1.0				6	1:S=10.2900	
007	icp15983	ICSAB				07-AUG-2003	10:21	1.0					5:CA=3011000	
008	icp15983	BLANK				07-AUG-2003	11:10	1.0					2:SI=981500	
009	icp15983	BLANK				07-AUG-2003	11:19	1.0					2:SI=1430000	
010	icp15983	SAMPLE				07-AUG-2003	11:22	1.0					2:SI=4.50E+7	
011	icp15983	MSS				07-AUG-2003	11:28	1.0					2:SI=4.70E+7	
012	icp15983	MSS				07-AUG-2003	11:30	1.0					2:SI=4.60E+7	
013	icp15984	SDUP				07-AUG-2003	11:33	1.0					2:SI=4.50E+7	
014	icp15984	SDUP				07-AUG-2003	11:36	1.0					2:SI=4.50E+7	
015	icp15984	SDUP				07-AUG-2003	11:39	1.0					2:SI=4.50E+7	
016	icp15984	CCV				07-AUG-2003	11:42	1.0				7	2:SI=1716000	
017	icp15984	CCV				07-AUG-2003	11:46	1.0				8		
018	icp15984	CCB				07-AUG-2003	11:51	1.0					2:SI=589000	
019	icp15984	SSPIKE				07-AUG-2003	11:54	1.0					2:SI=578300	
020	icp15984	SAMPLE				07-AUG-2003	11:57	1.0					2:SI=560800	
021	icp15984	SAMPLE				07-AUG-2003	11:59	1.0					2:SI=577100	
022	icp15984	SAMPLE				07-AUG-2003	12:02	1.0					2:SI=589000	
023	icp15985	SAMPLE				07-AUG-2003	12:04	1.0					2:SI=587900	
024	icp15985	SAMPLE				07-AUG-2003	12:07	1.0					2:SI=588300	
025	icp15985	SAMPLE				07-AUG-2003	12:09	1.0					2:NA=1756000	
026	icp15985	BLANK				07-AUG-2003	12:15	1.0					1:S=11.0800	
027	icp15985	BS				07-AUG-2003	12:17	1.0					1:S=10.0700	
028	icp15985	BSD				07-AUG-2003	12:22	1.0				7		
029	icp15985	CCV				07-AUG-2003	12:25	1.0				8		
030	icp15985	CCV				07-AUG-2003	12:28	1.0					2:NA=1859000	
031	icp15985	CCB				07-AUG-2003	12:35	1.0						
032	icp15985	MSS				07-AUG-2003	12:35	1.0						
033	icp15985	MSS				07-AUG-2003	12:35	1.0						
034	icp15985	MSS				07-AUG-2003	12:35	1.0						
035	icp15985	MSS				07-AUG-2003	12:35	1.0						
036	icp15985	MSS				07-AUG-2003	12:35	1.0						
037	icp15985	MSS				07-AUG-2003	12:35	1.0						
038	icp15985	MSS				07-AUG-2003	12:35	1.0						
039	icp15985	MSS				07-AUG-2003	12:35	1.0						
040	icp15985	MSS				07-AUG-2003	12:35	1.0						
041	icp15985	MSS				07-AUG-2003	12:35	1.0						
042	icp15985	MSS				07-AUG-2003	12:35	1.0						
043	icp15985	MSS				07-AUG-2003	12:35	1.0						
044	icp15985	MSS				07-AUG-2003	12:35	1.0						
045	icp15985	MSS				07-AUG-2003	12:35	1.0						
046	icp15985	MSS				07-AUG-2003	12:35	1.0						
047	icp15985	MSS				07-AUG-2003	12:35	1.0						
048	icp15985	MSS				07-AUG-2003	12:35	1.0						
049	icp15985	MSS				07-AUG-2003	12:35	1.0						
050	icp15985	MSS				07-AUG-2003	12:35	1.0						
051	icp15985	MSS				07-AUG-2003	12:35	1.0						
052	icp15985	MSS				07-AUG-2003	12:35	1.0						
053	icp15985	MSS				07-AUG-2003	12:35	1.0						
054	icp15985	MSS				07-AUG-2003	12:35	1.0						
055	icp15985	MSS				07-AUG-2003	12:35	1.0						
056	icp15985	MSS				07-AUG-2003	12:35	1.0						
057	icp15985	MSS				07-AUG-2003	12:35	1.0						
058	icp15985	MSS				07-AUG-2003	12:35	1.0						
059	icp15985	MSS				07-AUG-2003	12:35	1.0						
060	icp15985	MSS				07-AUG-2003	12:35	1.0						
061	icp15985	MSS				07-AUG-2003	12:35	1.0						
062	icp15985	MSS				07-AUG-2003	12:35	1.0						
063	icp15985	MSS				07-AUG-2003	12:35	1.0						
064	icp15985	MSS				07-AUG-2003	12:35	1.0						
065	icp15985	MSS				07-AUG-2003	12:35	1.0						
066	icp15985	MSS				07-AUG-2003	12:35	1.0						
067	icp15985	MSS				07-AUG-2003	12:35	1.0						
068	icp15985	MSS				07-AUG-2003	12:35	1.0						
069	icp15985	MSS				07-AUG-2003	12:35	1.0						
070	icp15985	MSS				07-AUG-2003	12:35	1.0						
071	icp15985	MSS				07-AUG-2003	12:35	1.0						
072	icp15985	MSS				07-AUG-2003	12:35	1.0						
073	icp15985	MSS				07-AUG-2003	12:35	1.0						
074	icp15985	MSS				07-AUG-2003	12:35	1.0						
075	icp15985	MSS				07-AUG-2003	12:35	1.0						
076	icp15985	MSS				07-AUG-2003	12:35	1.0						
077	icp15985	MSS				07-AUG-2003	12:35	1.0						
078	icp15985	MSS				07-AUG-2003	12:35	1.0						
079	icp15985	MSS				07-AUG-2003	12:35	1.0						
080	icp15985	MSS				07-AUG-2003	12:35	1.0						
081	icp15985	MSS				07-AUG-2003	12:35	1.0						
082	icp15985	MSS				07-AUG-2003	12:35	1.0						
083	icp15985	MSS				07-AUG-2003	12:35	1.0						
084	icp15985	MSS				07-AUG-2003	12:35	1.0						
085	icp15985	MSS				07-AUG-2003	12:35	1.0						
086	icp15985	MSS				07-AUG-2003	12:35	1.0						
087	icp15985	MSS				07-AUG-2003	12:35	1.0						
088	icp15985	MSS				07-AUG-2003	12:35	1.0						
089	icp15985	MSS				07-AUG-2003	12:35	1.0						
090	icp15985	MSS				07-AUG-2003	12:35	1.0						
091	icp15985	MSS				07-AUG-2003	12:35	1.0						
092	icp15985	MSS				07-AUG-2003	12:35	1.0						
093	icp15985	MSS				07-AUG-2003	12:35	1.0						
094	icp15985	MSS				07-AUG-2003	12:35	1.0						
095	icp15985	MSS				07-AUG-2003	12:35	1.0						
096	icp15985	MSS				07-AUG-2003	12:35	1.0						
097	icp15985	MSS				07-AUG-2003	12:35	1.0						
098	icp15985	MSS				07-AUG-2003	12:35	1.0						
099	icp15985	MSS				07-AUG-2003	12:35	1.0						
100	icp15985	MSS				07-AUG-2003	12:35	1.0						
101	icp15985	MSS				07-AUG-2003	12:35	1.0						
102	icp15985	MSS				07-AUG-2003	12:35	1.0						
103	icp15985	MSS				07-AUG-2003	12:35	1.0						
104	icp15985	MSS				07-AUG-2003	12:35	1.0						
105	icp15985	MSS				07-AUG-2003	12:35	1.0						
106	icp15985	MSS				07-AUG-2003	12:35	1.0						
107	icp15985	MSS				07-AUG-2003	12:35	1.0						
108	icp15985	MSS				07-AUG-2003	12:35	1.0						
109	icp15985	MSS				07-AUG-2003	12:35	1.0						
110	icp15985	MSS				07-AUG-2003	12:35	1.0						
111	icp15985	MSS				07-AUG-2003	12:35	1.0						
112	icp15985	MSS				07-AUG-2003	12:35	1.0						
113	icp15985	MSS				07-AUG-2003	12:35	1.0						
114	icp15985	MSS				07-AUG-2003	12:35	1.0						
115	icp15985	MSS				07-AUG-2003	12:35	1.0						
116	icp15985	MSS				07-AUG-2003	12:35	1.0						
117	icp15985	MSS				07-AUG-2003	12:35	1.0						
118	icp15985	MSS				07-AUG-2003	12:35	1.0						
119	icp15985	MSS				07-AUG-2003	12:35	1.0						
120	icp15985	MSS				07-AUG-2003	12:35	1.0						
121	icp15985	MSS				07-AUG-2003	12:35	1.0						
122	icp15985	MSS				07-AUG-2003								

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

TJA ICP

Instrument: MET01

Sequence: 13315951

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	icp15986 SDUP	QC221432	83470 WET Le	07-AUG-2003 12:37 1.0	5.0	1	1	2:NA=1.00E+7
034	icp15986 SSPIKE	QC221433	83470 WET Le	07-AUG-2003 12:41 1.0	5.0			2:NA=1871000
035	icp15986 MSS	166682-007	83482 Soil	07-AUG-2003 12:44 1.0	46.51163	6		3:FE=301000
036	icp15986 SER	QC221492	83482 Soil	07-AUG-2003 12:47 5.0	46.51163	2		1:S=50.3300
037	icp15986 MSS	166682-007	83482 Soil	07-AUG-2003 12:50 5.0	46.51163	4		1:S=32.3900
038	icp15986 SER	QC221492	83482 Soil	07-AUG-2003 12:54 25.0	46.51163	1	3	1:S=23.2500
039	icp15986 MS	QC221490	83482 Soil	07-AUG-2003 12:57 5.0	49.01961	1	2	1:S=20.9100
040	icp15986 MSD	QC221491	83482 Soil	07-AUG-2003 12:59 5.0	46.72897	1		1:S=19.0100
041	icp15986 MSS	166682-010	83482 Soil	07-AUG-2003 13:02 5.0	47.84689	4		1:S=16.3500
042	icp15986 CCV			07-AUG-2003 13:20 1.0	1.0	1	7	1:S=11.5500
043	icp15987 CCB			07-AUG-2003 13:24 1.0	1.0	3		1:S=10.5800
044	icp15987 MS	QC221493	83482 Soil	07-AUG-2003 13:27 5.0	46.51163	1		1:S=14.6300
045	icp15987 MSD	QC221494	83482 Soil	07-AUG-2003 13:30 5.0	45.24887	3	1	1:S=14.3500
046	icp15987 X	QC221624	83482 Soil	07-AUG-2003 13:34 5.0	1.0		9 10	1:S=16.8700
047	icp15987 SAMPLE	166668-011	83482 Soil	07-AUG-2003 13:43 5.0	45.24887			1:S=11.2500
048	icp15987 SAMPLE	166668-012	83482 Soil	07-AUG-2003 13:46 1.0	46.29630			1:S=10.9900
049	icp15987 SAMPLE	166682-001	83482 Soil	07-AUG-2003 13:49 1.0	46.94836			4:FE=318800
050	icp15987 SAMPLE	166682-016	83482 Soil	07-AUG-2003 13:52 1.0	45.87156			3:FE=277700
051	icp15987 SAMPLE	166682-017	83482 Soil	07-AUG-2003 13:54 1.0	43.66812			3:FE=306400
052	icp15987 SAMPLE	166682-018	83482 Soil	07-AUG-2003 13:57 1.0	49.75124			3:FE=259100
053	icp15988 SAMPLE	166682-019	83482 Soil	07-AUG-2003 14:00 1.0	42.91845			3:FE=334900
054	icp15988 PDS	QC221624	83482 Soil	07-AUG-2003 14:02 1.0	46.51163		9 10	3:FE=305100
055	icp15988 CCV			07-AUG-2003 14:10 1.0	1.0	1	7	
056	icp15988 CCB			07-AUG-2003 14:27 1.0	1.0	3		
057	icp15988 ICSAB			07-AUG-2003 14:41 1.0	1.0		6	5:CA=2710000

Stds used: 1=03WS1092 2=03WS1120 3=03WS1094 4=03WS1121 5=03WS1227 6=03WS1093 7=03WS1095 8=03WS1122 9=03SS286 10=03SS287

Analyst: new Date: 8/10/03
Page 2 of 2

Method: 6010B Standard: blank
 Run Time: 08/07/03 06:30:11

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.004	.000	-.003	.002	-.235	.004	.003
SDev	.000	.001	.002	.003	.001	.001	.001
%RSD	3.75	173.	70.7	172.	.221	25.0	26.5
#1	-.004	.001	-.002	-.000	-.235	.005	.004
#2	-.004	-.000	-.005	.003	-.235	.003	.003
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.002	-.016	.009	-.003	.001	.000	-.006
SDev	.000	.000	.001	.004	.003	.002	.002
%RSD	25.0	.787	5.83	141.	278.	651.	24.8
#1	-.002	-.017	.009	-.006	-.001	-.001	-.005
#2	-.001	-.016	.009	.000	.003	.002	-.008
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.002	-.001	-.003	.001	.027	.1769	.0001
SDev	.000	.001	.000	.000	.000	.0000	.0000
%RSD	13.6	113.	12.6	23.0	.346	.0000	.0000
#1	.002	-.002	-.003	.001	.027	.1769	.0001
#2	.003	-.000	-.004	.002	.027	.1769	.0001
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0023	.0005	.002	.333			
SDev	.0018	.0002	.001	.002			
%RSD	76.77	35.36	29.1	.595			
#1	-.0011	.0004	.003	.334			
#2	-.0036	.0007	.002	.331			

Method: 6010B Standard: cst hi
Run Time: 08/07/03 06:36:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.13	1.38	.507	73.5	8.33	2.78	.579
SDev	.08	.04	.002	.0	.00	.00	.001
%RSD	3.82	3.08	.326	.004	.023	.114	.098
#1	2.08	1.35	.508	73.5	8.33	2.78	.578
#2	2.19	1.41	.505	73.5	8.33	2.78	.579
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.68	1.52	1.76	1.93	3.25	4.49	.560
SDev	.00	.00	.01	.00	.00	.00	.001
%RSD	.008	.186	.548	.034	.087	.081	.143
#1	1.68	1.52	1.76	1.93	3.25	4.48	.559
#2	1.68	1.53	1.77	1.93	3.25	4.49	.561
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.695	.893	.335	2.34	.375	.4688	.7167
SDev	.005	.002	.004	.00	.000	.0019	.0005
%RSD	.692	.190	1.11	.030	.038	.4123	.0724
#1	.691	.892	.332	2.34	.376	.4675	.7163
#2	.698	.894	.337	2.34	.375	.4702	.7171
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2901	.4558	2.31	23.7			
SDev	.0016	.0001	.00	.0			
%RSD	.5526	.0103	.096	.005			
#1	.2889	.4559	2.31	23.7			
#2	.2912	.4558	2.31	23.7			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	465.981	1.75519	08/07/03 06:36:30
Sb206A	206.832	Multiple	Standards	713.180	-.213954	08/07/03 06:36:30
As1890	189.042	Multiple	Standards	981.533	3.27178	08/07/03 06:36:30
Ba4934	493.409	Multiple	Standards	13.6022	-.021310	08/07/03 06:36:30
Be3130	313.042	Multiple	Standards	11.2759	2.65021	08/07/03 06:36:30
Cd2265	226.502	Multiple	Standards	36.0091	-.142836	08/07/03 06:36:30
Cr2677	267.716	Multiple	Standards	347.897	-1.11327	08/07/03 06:36:30
Co2286	228.616	Multiple	Standards	297.950	.506515	08/07/03 06:36:30
Cu3247	324.754	Multiple	Standards	129.840	2.13984	08/07/03 06:36:30
Pb2203	220.351	Multiple	Standards	284.823	-2.53493	08/07/03 06:36:30
Pb220A	220.352	Multiple	Standards	256.979	.728108	08/07/03 06:36:30
Mo2020	202.030	Multiple	Standards	307.607	-.317861	08/07/03 06:36:30
Ni2316	231.604	Multiple	Standards	111.300	-.037100	08/07/03 06:36:30
Se1960	196.021	Multiple	Standards	883.262	5.71176	08/07/03 06:36:30
Se196A	196.022	Multiple	Standards	721.545	-1.75576	08/07/03 06:36:30
Ag3280	328.068	Multiple	Standards	111.890	.111890	08/07/03 06:36:30
Tl1908	190.864	Multiple	Standards	1487.33	5.00735	08/07/03 06:36:30
V_2924	292.402	Multiple	Standards	213.800	-.306447	08/07/03 06:36:30
Zn2138	213.856	Multiple	Standards	297.748	-8.11860	08/07/03 06:36:30
Al3082	308.215	Multiple	Standards	3469.99	-613.957	08/07/03 06:36:30
Ca3179	317.933	Multiple	Standards	2791.12	-.372149	08/07/03 06:36:30
Fe2714	271.441	Multiple	Standards	3566.42	8.32165	08/07/03 06:36:30
Mg2790	279.079	Multiple	Standards	4391.51	-2.34214	08/07/03 06:36:30
Mn2576	257.610	Multiple	Standards	43.2850	-.105327	08/07/03 06:36:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/07/03 06:36:30
Ti3349	334.941	Multiple	Standards	42.7233	-14.2069	08/07/03 06:36:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766001

Run Name :
Filename : tr212875

Injected : 07-AUG-2003 06:46
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	987.9000	ug/L	-1		5	
Antimony	1000.000	1020.000	ug/L	2		5	
Arsenic	500.0000	491.0000	ug/L	-2		5	
Barium	1000.000	993.0000	ug/L	-1		5	
Beryllium	100.0000	98.10000	ug/L	-2		5	
Cadmium	100.0000	97.80000	ug/L	-2		5	
Calcium	2000.000	1958.000	ug/L	-2		5	
Chromium	200.0000	197.0000	ug/L	-2		5	
Cobalt	500.0000	491.0000	ug/L	-2		5	
Copper	200.0000	198.0000	ug/L	-1		5	
Iron	1000.000	975.9000	ug/L	-2		5	
Lead	500.0000	490.0000	ug/L	-2		5	
Magnesium	2000.000	1965.000	ug/L	-2		5	
Manganese	100.0000	98.30000	ug/L	-2		5	
Molybdenum	1000.000	990.0000	ug/L	-1		5	
Nickel	500.0000	492.0000	ug/L	-2		5	
Selenium	500.0000	495.0000	ug/L	-1		5	
Silver	100.0000	99.40000	ug/L	-1		5	
Thallium	500.0000	492.0000	ug/L	-2		5	
Titanium	1000.000	987.0000	ug/L	-1		5	
Vanadium	500.0000	492.0000	ug/L	-2		5	
Zinc	100.0000	98.60000	ug/L	-1		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766002

Run Name :
Filename : tr212876

Injected : 07-AUG-2003 06:57
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500.0000	489.6000	ug/L	-2	10	
Antimony	500.0000	532.0000	ug/L	6	10	
Arsenic	250.0000	251.0000	ug/L	0	10	
Barium	500.0000	492.0000	ug/L	-2	10	
Beryllium	50.00000	50.60000	ug/L	1	10	
Cadmium	50.00000	48.60000	ug/L	-3	10	
Calcium	1000.000	1012.000	ug/L	1	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	247.0000	ug/L	-1	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	542.6000	ug/L	9	10	
Lead	250.0000	240.0000	ug/L	-4	10	
Magnesium	1000.000	1026.000	ug/L	3	10	
Manganese	50.00000	49.80000	ug/L	0	10	
Molybdenum	500.0000	493.0000	ug/L	-1	10	
Nickel	250.0000	250.0000	ug/L	0	10	
Selenium	250.0000	237.0000	ug/L	-5	10	
Silver	50.00000	49.50000	ug/L	-1	10	
Thallium	250.0000	246.0000	ug/L	-2	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	248.0000	ug/L	-1	10	
Zinc	50.00000	49.70000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766004

Run Name :
Filename : tr212878

Injected : 07-AUG-2003 07:13
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	97.48000	ug/L	-3	50		
Antimony	60.00000	77.60000	ug/L	29	50		
Arsenic	5.000000	6.960000	ug/L	39	50		
Barium	10.00000	9.980000	ug/L	0	50		
Beryllium	2.000000	1.970000	ug/L	-2	50		
Cadmium	5.000000	4.750000	ug/L	-5	50		
Chromium	10.00000	9.190000	ug/L	-8	50		
Cobalt	20.00000	19.30000	ug/L	-4	50		
Copper	10.00000	10.10000	ug/L	1	50		
Iron	100.0000	102.1000	ug/L	2	50		
Lead	3.000000	2.430000	ug/L	-19	50		
Manganese	10.00000	9.710000	ug/L	-3	50		
Molybdenum	20.00000	20.80000	ug/L	4	50		
Nickel	20.00000	19.90000	ug/L	-1	50		
Selenium	5.000000	6.750000	ug/L	35	50		
Silver	5.000000	4.680000	ug/L	-6	50		
Thallium	5.000000	6.740000	ug/L	35	50		
Vanadium	10.00000	9.850000	ug/L	-2	50		
Zinc	20.00000	20.80000	ug/L	4	50		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766014

Run Name :
Filename : tr212888

Injected : 07-AUG-2003 08:09
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	499.6000	ug/L	0	10	
Antimony		500.0000	515.0000	ug/L	3	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	51.90000	ug/L	4	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	1044.000	ug/L	4	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	253.0000	ug/L	1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	542.5000	ug/L	9	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1041.000	ug/L	4	10	
Manganese		50.00000	51.20000	ug/L	2	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	254.0000	ug/L	2	10	
Zinc		50.00000	51.60000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766026

Run Name :
Filename : tr212900

Injected : 07-AUG-2003 09:06
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	754.8000	ug/L	1		10	
Antimony		750.0000	772.0000	ug/L	3		10	
Arsenic		375.0000	378.0000	ug/L	1		10	
Barium		750.0000	742.0000	ug/L	-1		10	
Beryllium		75.00000	76.20000	ug/L	2		10	
Cadmium		75.00000	73.10000	ug/L	-3		10	
Calcium		1500.000	1522.000	ug/L	1		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	370.0000	ug/L	-1		10	
Copper		150.0000	153.0000	ug/L	2		10	
Iron		750.0000	797.8000	ug/L	6		10	
Lead		375.0000	361.0000	ug/L	-4		10	
Magnesium		1500.000	1531.000	ug/L	2		10	
Manganese		75.00000	74.90000	ug/L	0		10	
Molybdenum		750.0000	754.0000	ug/L	1		10	
Nickel		375.0000	376.0000	ug/L	0		10	
Selenium		375.0000	357.0000	ug/L	-5		10	
Silver		75.00000	75.70000	ug/L	1		10	
Thallium		375.0000	371.0000	ug/L	-1		10	
Titanium		750.0000	752.0000	ug/L	0		10	
Vanadium		375.0000	373.0000	ug/L	-1		10	
Zinc		75.00000	74.60000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766038

Run Name :
Filename : tr212913

Injected : 07-AUG-2003 10:27
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	706.0000	ug/L	-6	10	
Antimony		750.0000	781.0000	ug/L	4	10	
Arsenic		375.0000	365.0000	ug/L	-3	10	
Barium		750.0000	721.0000	ug/L	-4	10	
Beryllium		75.00000	72.80000	ug/L	-3	10	
Cadmium		75.00000	70.20000	ug/L	-6	10	
Calcium		1500.000	1417.000	ug/L	-6	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	354.0000	ug/L	-6	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	704.0000	ug/L	-6	10	
Lead		375.0000	355.0000	ug/L	-5	10	
Magnesium		1500.000	1442.000	ug/L	-4	10	
Manganese		75.00000	70.90000	ug/L	-5	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	359.0000	ug/L	-4	10	
Selenium		375.0000	354.0000	ug/L	-6	10	
Silver		75.00000	73.30000	ug/L	-2	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	728.0000	ug/L	-3	10	
Vanadium		375.0000	358.0000	ug/L	-5	10	
Zinc		75.00000	70.50000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766049

Run Name :
Filename : tr212924

Injected : 07-AUG-2003 11:17
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	502.2000	ug/L	0	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	47.90000	ug/L	-4	10	
Calcium		1000.000	999.4000	ug/L	0	10	
Chromium		100.0000	99.90000	ug/L	0	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	521.2000	ug/L	4	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1003.000	ug/L	0	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	48.40000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766061

Run Name :
Filename : tr212936

Injected : 07-AUG-2003 12:04
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	754.5000	ug/L	1	10	
Antimony		750.0000	780.0000	ug/L	4	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	738.0000	ug/L	-2	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	71.80000	ug/L	-4	10	
Calcium		1500.000	1536.000	ug/L	2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	764.5000	ug/L	2	10	
Lead		375.0000	368.0000	ug/L	-2	10	
Magnesium		1500.000	1514.000	ug/L	1	10	
Manganese		75.00000	75.30000	ug/L	0	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	360.0000	ug/L	-4	10	
Silver		75.00000	77.20000	ug/L	3	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	759.0000	ug/L	1	10	
Vanadium		375.0000	375.0000	ug/L	0	10	
Zinc		75.00000	74.00000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instdid : MET07
Segnum : 73315766073

Run Name :
Filename : tr212948

Injected : 07-AUG-2003 12:56
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	507.9000	ug/L	2		10	
Antimony		500.0000	492.0000	ug/L	-2		10	
Arsenic		250.0000	251.0000	ug/L	0		10	
Barium		500.0000	492.0000	ug/L	-2		10	
Beryllium		50.00000	50.60000	ug/L	1		10	
Cadmium		50.00000	48.00000	ug/L	-4		10	
Calcium		1000.000	1028.000	ug/L	3		10	
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	246.0000	ug/L	-2		10	
Copper		100.0000	104.0000	ug/L	4		10	
Iron		500.0000	543.6000	ug/L	9		10	
Lead		250.0000	247.0000	ug/L	-1		10	
Magnesium		1000.000	1017.000	ug/L	2		10	
Manganese		50.00000	50.80000	ug/L	2		10	
Molybdenum		500.0000	503.0000	ug/L	1		10	
Nickel		250.0000	248.0000	ug/L	-1		10	
Selenium		250.0000	239.0000	ug/L	-4		10	
Silver		50.00000	50.90000	ug/L	2		10	
Thallium		250.0000	237.0000	ug/L	-5		10	
Titanium		500.0000	514.0000	ug/L	3		10	
Vanadium		250.0000	251.0000	ug/L	0		10	
Zinc		50.00000	49.00000	ug/L	-2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766097

Run Name :
Filename : tr212972

Injected : 07-AUG-2003 14:37
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	701.5000	ug/L	-6	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	369.0000	ug/L	-2	10	
Barium		750.0000	726.0000	ug/L	-3	10	
Beryllium		75.00000	73.40000	ug/L	-2	10	
Cadmium		75.00000	70.20000	ug/L	-6	10	
Calcium		1500.000	1425.000	ug/L	-5	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	355.0000	ug/L	-5	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	697.9000	ug/L	-7	10	
Lead		375.0000	360.0000	ug/L	-4	10	
Magnesium		1500.000	1446.000	ug/L	-4	10	
Manganese		75.00000	70.90000	ug/L	-5	10	
Molybdenum		750.0000	747.0000	ug/L	0	10	
Nickel		375.0000	361.0000	ug/L	-4	10	
Selenium		375.0000	356.0000	ug/L	-5	10	
Silver		75.00000	74.30000	ug/L	-1	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	733.0000	ug/L	-2	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	70.90000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766109

Run Name :
Filename : tr212984

Injected : 07-AUG-2003 15:20
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	720.2000	ug/L	-4	10	
Antimony		750.0000	764.0000	ug/L	2	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	72.70000	ug/L	-3	10	
Cadmium		75.00000	69.50000	ug/L	-7	10	
Calcium		1500.000	1427.000	ug/L	-5	10	
Chromium		150.0000	144.0000	ug/L	-4	10	
Cobalt		375.0000	353.0000	ug/L	-6	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	724.2000	ug/L	-3	10	
Lead		375.0000	352.0000	ug/L	-6	10	
Magnesium		1500.000	1451.000	ug/L	-3	10	
Manganese		75.00000	71.10000	ug/L	-5	10	
Molybdenum		750.0000	733.0000	ug/L	-2	10	
Nickel		375.0000	359.0000	ug/L	-4	10	
Selenium		375.0000	352.0000	ug/L	-6	10	
Silver		75.00000	73.80000	ug/L	-2	10	
Thallium		375.0000	351.0000	ug/L	-6	10	
Titanium		750.0000	733.0000	ug/L	-2	10	
Vanadium		375.0000	359.0000	ug/L	-4	10	
Zinc		75.00000	70.60000	ug/L	-6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766119

Run Name :
Filename : tr212995

Injected : 07-AUG-2003 16:12
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	543.1000	ug/L	9	10	
Antimony		500.0000	497.0000	ug/L	-1	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	48.30000	ug/L	-3	10	
Calcium		1000.000	1078.000	ug/L	8	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	542.9000	ug/L	9	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1071.000	ug/L	7	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	507.0000	ug/L	1	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	49.90000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766003
Filename: tr212877

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 07-AUG-2003 07:09

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[29.300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1940]	10.00000	ug/L	<RL	
Beryllium	[0.1090]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.3980]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0100]	10.00000	ug/L	<RL	
Copper	[0.0280]	10.00000	ug/L	<RL	
Iron	[1.1780]	100.0000	ug/L	<RL	
Lead	[0.6290]	3.000000	ug/L	<RL	
Magnesium	[5.5630]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[6.5500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.4800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.8800]	5.000000	ug/L	<RL	
Titanium	[1.0500]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766015
Filename: tr212889

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 08:14

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[10.400]		60.00000	ug/L	<	RL
Arsenic	[0.1290]		5.000000	ug/L	<	RL
Barium	[0.1500]		10.00000	ug/L	<	RL
Beryllium	[0.0850]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[3.7220]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.3580]		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[1.9910]		100.0000	ug/L	<	RL
Lead	[1.1000]		3.000000	ug/L	<	RL
Magnesium	[5.4170]		500.0000	ug/L	<	RL
Manganese	[0.0690]		10.00000	ug/L	<	RL
Molybdenum	[3.2600]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[0.5300]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[1.7900]		5.000000	ug/L	<	RL
Titanium	[0.9740]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.1800]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766027
Filename: tr212901

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 09:11

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[9.3300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.1450]		10.00000	ug/L	<	RL
Beryllium	[0.1240]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[2.5130]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	[0.0170]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[0.6300]		3.000000	ug/L	<	RL
Magnesium	[4.3910]		500.0000	ug/L	<	RL
Manganese	[0.1020]		10.00000	ug/L	<	RL
Molybdenum	[3.3200]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[2.2900]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[0.5010]		5.000000	ug/L	<	RL
Titanium	[0.9500]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.0330]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766039
Filename: tr212914

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 10:34

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.5300]	100.0000	ug/L	<RL		
Antimony	[14.200]	60.00000	ug/L	<RL		
Arsenic	[1.5000]	5.000000	ug/L	<RL		
Barium	[0.1060]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[0.7889]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2590]	10.00000	ug/L	<RL		
Copper	[0.0380]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[0.6900]	3.000000	ug/L	<RL		
Magnesium	[1.9700]	500.0000	ug/L	<RL		
Manganese	[0.0190]	10.00000	ug/L	<RL		
Molybdenum	[3.3300]	20.00000	ug/L	<RL		
Nickel	[0.0910]	20.00000	ug/L	<RL		
Selenium	[1.0600]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.2920]	5.000000	ug/L	<RL		
Titanium	[0.3480]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766050
Filename: tr212925

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 11:23

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.7530]	100.0000	ug/L	<RL		
Antimony	[7.4900]	60.00000	ug/L	<RL		
Arsenic	[0.5760]	5.000000	ug/L	<RL		
Barium	[0.1010]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[2.8130]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2300]	10.00000	ug/L	<RL		
Copper	[0.3170]	10.00000	ug/L	<RL		
Iron	[1.4540]	100.0000	ug/L	<RL		
Lead	[1.2700]	3.000000	ug/L	<RL		
Magnesium	[3.6610]	500.0000	ug/L	<RL		
Manganese	[0.0830]	10.00000	ug/L	<RL		
Molybdenum	[2.4600]	20.00000	ug/L	<RL		
Nickel	[0.2200]	20.00000	ug/L	<RL		
Selenium	[2.1000]	5.000000	ug/L	<RL		
Silver	[0.0400]	5.000000	ug/L	<RL		
Thallium	[0.4360]	5.000000	ug/L	<RL		
Titanium	[1.2400]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2760]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766062
Filename: tr212937

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 12:08

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[6.6270]	100.0000	ug/L	<RL		
Antimony	[9.4500]	60.00000	ug/L	<RL		
Arsenic	[0.4460]	5.000000	ug/L	<RL		
Barium	[0.2850]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[5.4500]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2590]	10.00000	ug/L	<RL		
Copper	[0.5350]	10.00000	ug/L	<RL		
Iron	[4.8500]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[4.0840]	500.0000	ug/L	<RL		
Manganese	[0.2190]	10.00000	ug/L	<RL		
Molybdenum	[4.3500]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[2.1500]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.3100]	5.000000	ug/L	<RL		
Titanium	[1.9200]	10.00000	ug/L	<RL		
Vanadium	[0.0420]	10.00000	ug/L	<RL		
Zinc	[0.7280]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766074
Filename: tr212949

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 13:00

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[4.4140]	100.0000	ug/L	<RL		
Antimony	[11.500]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.1640]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0360]	5.000000	ug/L	<RL		
Calcium	[5.9770]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2500]	10.00000	ug/L	<RL		
Copper	[0.4290]	10.00000	ug/L	<RL		
Iron	[1.9010]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[5.2100]	500.0000	ug/L	<RL		
Manganese	[0.2530]	10.00000	ug/L	<RL		
Molybdenum	[4.3500]	20.00000	ug/L	<RL		
Nickel	[0.0870]	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[1.7800]	10.00000	ug/L	<RL		
Vanadium	[0.0140]	10.00000	ug/L	<RL		
Zinc	[0.3630]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766098
Filename: tr212973

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 14:41

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[12.500]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.4040]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[2.5470]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	[0.2980]		10.00000	ug/L	<	RL
Copper	[0.2210]		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[1.9700]		500.0000	ug/L	<	RL
Manganese	[0.0120]		10.00000	ug/L	<	RL
Molybdenum	[10.200]		20.00000	ug/L	<	RL
Nickel	[0.1260]		20.00000	ug/L	<	RL
Selenium	[3.6200]		5.000000	ug/L	<	RL
Silver	[0.0860]		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.6900]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	[0.1620]		20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766110
Filename: tr212985

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 15:23

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[20.000]	100.0000	ug/L	<RL		
Antimony	[11.000]	60.00000	ug/L	<RL		
Arsenic	[1.6600]	5.000000	ug/L	<RL		
Barium	[1.9000]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1660]	5.000000	ug/L	<RL		
Calcium	[20.920]	500.0000	ug/L	<RL		
Chromium	[1.1400]	10.00000	ug/L	<RL		
Cobalt	[0.5280]	10.00000	ug/L	<RL		
Copper	[0.3740]	10.00000	ug/L	<RL		
Iron	[15.480]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[20.700]	500.0000	ug/L	<RL		
Manganese	[0.5160]	10.00000	ug/L	<RL		
Molybdenum	[8.4500]	20.00000	ug/L	<RL		
Nickel	[0.6180]	20.00000	ug/L	<RL		
Selenium	[3.5100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.1100]	5.000000	ug/L	<RL		
Titanium	[3.1100]	10.00000	ug/L	<RL		
Vanadium	[0.2940]	10.00000	ug/L	<RL		
Zinc	[0.9130]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73315766120
Filename: tr212996

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 07-AUG-2003 16:16

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[21.010]	100.0000	ug/L	<RL		
Antimony	[13.600]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.7020]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1550]	5.000000	ug/L	<RL		
Calcium	[24.870]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2700]	10.00000	ug/L	<RL		
Copper	[0.4320]	10.00000	ug/L	<RL		
Iron	[10.230]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[24.120]	500.0000	ug/L	<RL		
Manganese	[0.2430]	10.00000	ug/L	<RL		
Molybdenum	[6.5600]	20.00000	ug/L	<RL		
Nickel	[0.0810]	20.00000	ug/L	<RL		
Selenium	[2.3000]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.9750]	5.000000	ug/L	<RL		
Titanium	[1.3400]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.2580]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766005

Run Name :
Filename : tr212879

Injected : 07-AUG-2003 07:18
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	463900.0	ug/L	-7			
Antimony	500.0000	455.0000	ug/L	-9	20		
Arsenic	500.0000	475.0000	ug/L	-5	20		
Barium	500.0000	447.0000	ug/L	-11	20		
Beryllium	500.0000	420.0000	ug/L	-16	20		
Cadmium	1000.000	809.0000	ug/L	-19	20		
Calcium	500000.0	369600.0	ug/L	-26			
Chromium	500.0000	416.0000	ug/L	-17	20		
Cobalt	500.0000	410.0000	ug/L	-18	20		
Copper	500.0000	486.0000	ug/L	-3	20		
Iron	200000.0	163300.0	ug/L	-18			
Lead	1000.000	897.0000	ug/L	-10	20		
Magnesium	500000.0	452900.0	ug/L	-9			
Manganese	500.0000	425.0000	ug/L	-15	20		
Molybdenum	500.0000	425.0000	ug/L	-15	20		
Nickel	1000.000	891.0000	ug/L	-11	20		
Selenium	500.0000	438.0000	ug/L	-12	20		
Silver	1000.000	960.0000	ug/L	-4	20		
Thallium	500.0000	422.0000	ug/L	-16	20		
Titanium	20000.00	1780.000	ug/L	-91			
Vanadium	500.0000	432.0000	ug/L	-14	20		
Zinc	1000.000	884.0000	ug/L	-12	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73315766118

Run Name :
Filename : tr212994

Injected : 07-AUG-2003 16:06
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	473400.0	ug/L	-5			
Antimony	500.0000	485.0000	ug/L	-3	20		
Arsenic	500.0000	484.0000	ug/L	-3	20		
Barium	500.0000	455.0000	ug/L	-9	20		
Beryllium	500.0000	440.0000	ug/L	-12	20		
Cadmium	1000.000	833.0000	ug/L	-17	20		
Calcium	500000.0	385700.0	ug/L	-23			
Chromium	500.0000	431.0000	ug/L	-14	20		
Cobalt	500.0000	422.0000	ug/L	-16	20		
Copper	500.0000	496.0000	ug/L	-1	20		
Iron	200000.0	168300.0	ug/L	-16			
Lead	1000.000	933.0000	ug/L	-7	20		
Magnesium	500000.0	469500.0	ug/L	-6			
Manganese	500.0000	443.0000	ug/L	-11	20		
Molybdenum	500.0000	452.0000	ug/L	-10	20		
Nickel	1000.000	917.0000	ug/L	-8	20		
Selenium	500.0000	453.0000	ug/L	-9	20		
Silver	1000.000	853.0000	ug/L	-15	20		
Thallium	500.0000	429.0000	ug/L	-14	20		
Titanium	20000.00	1850.000	ug/L	-91			
Vanadium	500.0000	446.0000	ug/L	-11	20		
Zinc	1000.000	908.0000	ug/L	-9	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

Instrument: MET07 TJA Trace ICP

Sequence: 73315766

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr212875 CS		07-AUG-2003 06:46	1.0	1.0		1	
002	tr212876 ICB		07-AUG-2003 06:57	1.0	1.0		2	
003	tr212877 ICB		07-AUG-2003 07:09	1.0	1.0		3	
004	tr212878 CRI		07-AUG-2003 07:13	1.0	1.0		4	4:AL=463900
005	tr212879 ICSAB		07-AUG-2003 07:18	1.0	1.0			
006	tr212880 BLANK		07-AUG-2003 07:28	1.0	50.0			
007	tr212881 BS		07-AUG-2003 07:33	1.0	50.0			
008	tr212882 BSD		07-AUG-2003 07:37	1.0	50.0			1:FE=155900
009	tr212883 MSS		07-AUG-2003 07:43	1.0	45.66210	1		
010	tr212884 SER		07-AUG-2003 07:48	5.0	45.66210	2		2:FE=164800
011	tr212885 MS		07-AUG-2003 07:52	1.0	47.39336			2:FE=154600
012	tr212886 MSD		07-AUG-2003 07:56	1.0	44.44444			3:FE=192100
013	tr212887 SAMPLE		07-AUG-2003 08:01	1.0	42.55319		5	
014	tr212888 CCV		07-AUG-2003 08:09	1.0	1.0			
015	tr212889 CCB		07-AUG-2003 08:14	1.0	1.0			3:FE=186700
016	tr212890 SAMPLE		07-AUG-2003 08:19	1.0	44.84305			2:FE=210900
017	tr212891 SAMPLE		07-AUG-2003 08:23	1.0	37.03704			2:FE=189000
018	tr212892 SAMPLE		07-AUG-2003 08:27	1.0	46.29630			2:FE=190300
019	tr212893 SAMPLE		07-AUG-2003 08:31	1.0	41.49378			3:FE=173800
020	tr212894 SAMPLE		07-AUG-2003 08:35	1.0	42.91845			2:FE=171600
021	tr212895 SAMPLE		07-AUG-2003 08:39	1.0	47.16981			3:FE=198500
022	tr212896 SAMPLE		07-AUG-2003 08:43	1.0	49.26108			2:FE=258600
023	tr212897 SAMPLE		07-AUG-2003 08:47	1.0	38.91051			2:FE=217500
024	tr212898 SAMPLE		07-AUG-2003 08:51	1.0	45.24887			2:FE=218900
025	tr212899 SAMPLE		07-AUG-2003 08:56	1.0	45.04505		6	
026	tr212900 CCV		07-AUG-2003 09:06	1.0	1.0			
027	tr212901 CCB		07-AUG-2003 09:11	1.0	1.0			2:FE=226400
028	tr212902 SAMPLE		07-AUG-2003 09:17	1.0	46.72897			2:FE=217600
029	tr212903 SAMPLE		07-AUG-2003 09:21	1.0	49.26108			5:MG=284200
030	tr212904 SAMPLE		07-AUG-2003 09:25	1.0	44.24779			3:FE=298500
031	tr212905 SAMPLE		07-AUG-2003 09:29	1.0	39.52569			3:MG=293900
032	tr212906 SAMPLE		07-AUG-2003 09:33	1.0	45.66210			

stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

8/7/03

Date:

Analyst:

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SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

Sequence: 73315766 Instrument: MET07 TJA Trace ICP

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr212907 BLANK	QC221498	83485 Soil	07-AUG-2003 09:40 1.0	50.0			
034	tr212908 BS	QC221499	83485 Soil	07-AUG-2003 10:04 1.0	50.0			
035	tr212909 BSD	QC221500	83485 Soil	07-AUG-2003 10:07 1.0	50.0			2:FE=225300
036	tr212910 MSS	166682-013	83485 Soil	07-AUG-2003 10:12 1.0	45.66210 2			
037	tr212911 SER	QC221503	83485 Soil	07-AUG-2003 10:15 5.0	45.66210		6	
038	tr212913 CCV			07-AUG-2003 10:27 1.0	1.0			
039	tr212914 CCB			07-AUG-2003 10:34 1.0	1.0			
040	tr212915 MSS	166682-013	83485 Soil	07-AUG-2003 10:39 10.0	45.66210			
041	tr212916 SER	QC221503	83485 Soil	07-AUG-2003 10:42 50.0	45.66210			2:FE=222500
042	tr212917 MS	QC221501	83485 Soil	07-AUG-2003 10:46 1.0	45.87156			2:FE=267700
043	tr212918 MSD	QC221502	83485 Soil	07-AUG-2003 10:50 1.0	40.0			1:FE=173300
044	tr212919 SAMPLE	166668-026	83485 Soil	07-AUG-2003 10:53 1.0	45.24887			2:FE=181300
045	tr212920 SAMPLE	166668-027	83485 Soil	07-AUG-2003 10:57 1.0	39.06250			1:FE=175200
046	tr212921 SAMPLE	166668-029	83485 Soil	07-AUG-2003 11:00 1.0	47.84689			1:FE=170200
047	tr212922 SAMPLE	166668-030	83485 Soil	07-AUG-2003 11:04 1.0	42.91845			2:FE=191300
048	tr212923 SAMPLE	166668-031	83485 Soil	07-AUG-2003 11:07 1.0	40.16064		5	
049	tr212924 CCV			07-AUG-2003 11:17 1.0	1.0			
050	tr212925 CCB			07-AUG-2003 11:23 1.0	1.0			3:FE=208200
051	tr212926 SAMPLE	166682-004	83485 Soil	07-AUG-2003 11:27 1.0	45.45455 3			3:FE=268000
052	tr212927 SAMPLE	166682-005	83485 Soil	07-AUG-2003 11:31 1.0	40.98361 3			
053	tr212928 SAMPLE	166733-001	83485 Soil	07-AUG-2003 11:34 1.0	47.39336			2:AL=109500
054	tr212929 SAMPLE	166733-002	83485 Soil	07-AUG-2003 11:38 1.0	34.72222			3:FE=246500
055	tr212930 SAMPLE	166733-003	83485 Soil	07-AUG-2003 11:41 1.0	38.02281 1			3:FE=192500
056	tr212931 SAMPLE	166758-002	83485 Soil	07-AUG-2003 11:44 1.0	47.39336			
057	tr212932 SAMPLE	166733-003	83485 Soil	07-AUG-2003 11:48 10.0	38.02281			2:FE=169400
058	tr212933 SAMPLE	166758-003	83485 Soil	07-AUG-2003 11:52 1.0	42.73504			3:FE=208400
059	tr212934 SAMPLE	166758-004	83485 Soil	07-AUG-2003 11:55 1.0	47.84689			2:FE=174200
060	tr212935 SAMPLE	166758-005	83485 Soil	07-AUG-2003 11:59 1.0	47.39336		6	
061	tr212936 CCV			07-AUG-2003 12:04 1.0	1.0			
062	tr212937 CCB			07-AUG-2003 12:08 1.0	1.0		7 8	2:FE=234700
063	tr212938 PDS	QC221556	83485 Soil	07-AUG-2003 12:15 1.0	45.66210			
064	tr212939 SAMPLE	166682-004	83485 Soil	07-AUG-2003 12:19 1.0	45.45455			

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: Date: 8/2/03
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SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73315766

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr212940	SAMPLE	166682-005	83485	Soil	07-AUG-2003	12:24	10.0	40.98361					2:FE=144000
066	tr212941	SAMPLE	166758-006	83485	Soil	07-AUG-2003	12:28	1.0	46.29630					1:FE=133600
067	tr212942	SAMPLE	166668-001	83478	Soil	07-AUG-2003	12:34	1.0	50.0					1:FE=138700
068	tr212943	SAMPLE	166668-002	83478	Soil	07-AUG-2003	12:37	1.0	43.10345					1:FE=178600
069	tr212944	SAMPLE	166668-003	83478	Soil	07-AUG-2003	12:41	1.0	47.84689					1:FE=143500
070	tr212945	SAMPLE	166668-004	83478	Soil	07-AUG-2003	12:44	1.0	44.24779					1:FE=150300
071	tr212946	SAMPLE	166668-005	83478	Soil	07-AUG-2003	12:48	1.0	43.47826					1:FE=152000
072	tr212947	SAMPLE	166668-006	83478	Soil	07-AUG-2003	12:51	1.0	49.26108					
073	tr212948	CCV				07-AUG-2003	12:56	1.0	1.0			5		
074	tr212949	CCB				07-AUG-2003	13:00	1.0	1.0					
075	tr212950	BLANK				07-AUG-2003	13:04	1.0	50.0					
076	tr212951	BS				07-AUG-2003	13:07	1.0	50.0					
077	tr212952	BSD				07-AUG-2003	13:11	1.0	50.0					1:FE=161900
078	tr212953	MSS				07-AUG-2003	13:16	1.0	44.05286	1				
079	tr212954	SER				07-AUG-2003	13:24	5.0	44.05286	1				2:FE=187800
080	tr212955	MS				07-AUG-2003	13:28	1.0	38.91051					2:FE=174100
081	tr212956	MSD				07-AUG-2003	13:31	1.0	43.10345					
082	tr212957	SER				07-AUG-2003	13:35	5.0	44.05286					2:FE=165800
083	tr212958	PDS				07-AUG-2003	13:39	1.0	44.05286			7	8	1:FE=147800
084	tr212959	SAMPLE				07-AUG-2003	13:42	1.0	42.91845					
085	tr212960	CCV				07-AUG-2003	13:49	1.0	1.0			5		
086	tr212961	CCB				07-AUG-2003	13:53	1.0	1.0					
087	tr212962	BLANK				07-AUG-2003	13:58	1.0	1.0					
088	tr212963	BS				07-AUG-2003	14:03	1.0	1.0					
089	tr212964	BSD				07-AUG-2003	14:06	1.0	1.0					
090	tr212965	MSS				07-AUG-2003	14:10	1.0	1.0					
091	tr212966	MS				07-AUG-2003	14:13	1.0	1.0					
092	tr212967	MSD				07-AUG-2003	14:17	1.0	1.0					
093	tr212968	SAMPLE				07-AUG-2003	14:20	1.0	1.0					
094	tr212969	SAMPLE				07-AUG-2003	14:24	1.0	1.0					
095	tr212970	SAMPLE				07-AUG-2003	14:27	1.0	1.0					
096	tr212971	SAMPLE				07-AUG-2003	14:31	1.0	1.0					

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: MEW Date: 8/13

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 07-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73315766

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
097	tr212972	CCV				07-AUG-2003	14:37	1.0				6		
098	tr212973	CCB				07-AUG-2003	14:41	1.0						
099	tr212974	SAMPLE	166668-009	83478	Soil	07-AUG-2003	14:44	1.0						1:FE=149400
100	tr212975	SAMPLE	166668-014	83478	Soil	07-AUG-2003	14:48	1.0						1:FE=124000
101	tr212976	SAMPLE	166668-015	83478	Soil	07-AUG-2003	14:51	1.0						1:FE=157300
102	tr212977	SAMPLE	166668-016	83478	Soil	07-AUG-2003	14:55	1.0						1:FE=139300
103	tr212978	SAMPLE	166668-018	83478	Soil	07-AUG-2003	14:58	1.0						1:FE=125500
104	tr212979	SAMPLE	166668-019	83478	Soil	07-AUG-2003	15:02	1.0						1:FE=160000
105	tr212980	SAMPLE	166668-020	83478	Soil	07-AUG-2003	15:05	1.0						1:FE=149600
106	tr212981	SAMPLE	166668-021	83478	Soil	07-AUG-2003	15:09	1.0						1:FE=128000
107	tr212982	SAMPLE	166668-022	83478	Soil	07-AUG-2003	15:12	1.0						1:FE=131300
108	tr212983	BSD	QC221489	83482	Soil	07-AUG-2003	15:16	1.0				6		
109	tr212984	CCV				07-AUG-2003	15:20	1.0						
110	tr212985	CCB				07-AUG-2003	15:23	1.0						1:FE=124800
111	tr212986	SAMPLE	166668-023	83478	Soil	07-AUG-2003	15:30	1.0						1:FE=134400
112	tr212987	SAMPLE	166668-024	83478	Soil	07-AUG-2003	15:34	1.0						1:FE=139400
113	tr212988	SAMPLE	166668-025	83478	Soil	07-AUG-2003	15:37	1.0						
114	tr212989	BLANK	QC221510	83487	Soil	07-AUG-2003	15:41	1.0				1		
115	tr212991	BS	QC221511	83487	Soil	07-AUG-2003	15:53	1.0						
116	tr212992	BSD	QC221512	83487	Soil	07-AUG-2003	15:59	1.0						3:FE=323700
117	tr212993	MSS	166669-001	83487	Soil	07-AUG-2003	16:03	1.0						4:AL=473400
118	tr212994	ICSAB				07-AUG-2003	16:06	1.0				4		
119	tr212995	CCV				07-AUG-2003	16:12	1.0				5		
120	tr212996	CCB				07-AUG-2003	16:16	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: Mei Date: 8/17

REPORTING SUMMARY FOR 166682 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
166682-001	MET07	08/06/03 18:49	1.0		+		+					+	+									+
166682-001	MET01	08/07/03 13:49	1.0																			
166682-003	MET07	08/06/03 18:53	1.0		+		+					+	+									+
166682-004	MET07	08/07/03 11:27	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166682-004	MET07	08/07/03 12:19	1.0	+								+	+									
166682-005	MET07	08/07/03 11:31	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166682-005	MET07	08/07/03 12:24	10.0	+								+	+									
166682-006	MET07	08/06/03 18:57	1.0		+		+					+	+									+
166682-007	MET07	08/06/03 17:47	1.0		+		+					+	+									+
166682-007	MET01	08/07/03 12:44	1.0																			
166682-007	MET01	08/07/03 12:50	5.0																			
166682-008	MET07	08/06/03 19:02	1.0		+		+					+	+									+
166682-009	MET07	08/06/03 19:06	1.0		+		+					+	+									+
166682-010	MET07	08/06/03 18:08	1.0		+		+					+	+									+
166682-010	MET01	08/07/03 13:02	5.0																			
166682-011	MET07	08/06/03 19:10	1.0		+		+					+	+									+
166682-012	MET07	08/06/03 19:15	1.0		+		+					+	+									+
166682-013	MET07	08/07/03 10:12	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
166682-013	MET07	08/07/03 10:39	10.0	+								+										
166682-015	MET07	08/06/03 19:19	1.0		+		+					+	+									+
166682-016	MET07	08/06/03 19:42	1.0				+					+	+									+
166682-016	MET01	08/07/03 13:52	1.0		+																	
166682-017	MET07	08/06/03 19:46	1.0				+					+	+									+
166682-017	MET01	08/07/03 13:54	1.0		+																	
166682-018	MET07	08/06/03 19:50	1.0				+					+	+									+
166682-018	MET01	08/07/03 13:57	1.0		+																	
166682-019	MET07	08/06/03 19:55	1.0				+					+	+									+
166682-019	MET01	08/07/03 14:00	1.0		+																	
QC221487	MET07	08/06/03 17:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221488	MET07	08/06/03 17:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221489	MET07	08/06/03 17:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221489	MET07	08/07/03 15:16	1.0															+				
QC221490	MET07	08/06/03 17:58	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221490	MET01	08/07/03 12:57	5.0	+								+	+		+	+					+	

REPORTING SUMMARY FOR 166682 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	A	S	A	B	B	C	C	C	C	F	P	M	M	N	S	A	T	V	Z
				L	B	S	A	E	D	R	O	U	E	B	G	N	I	E	G	L	N	
QC221491	MET07	08/06/03 18:02	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221491	MET01	08/07/03 12:59	5.0	+									+							+		
QC221492	MET07	08/06/03 17:53	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+
QC221492	MET01	08/07/03 12:47	5.0																			
QC221492	MET01	08/07/03 12:54	25.0	+									+							+		
QC221493	MET07	08/06/03 18:12	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221493	MET01	08/07/03 13:27	5.0	+									+									
QC221494	MET07	08/06/03 18:16	1.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221494	MET01	08/07/03 13:30	5.0	+									+									
QC221624	MET01	08/07/03 14:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221498	MET07	08/07/03 09:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221499	MET07	08/07/03 10:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221500	MET07	08/07/03 10:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221501	MET07	08/07/03 10:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221502	MET07	08/07/03 10:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC221503	MET07	08/07/03 10:15	5.0		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC221503	MET07	08/07/03 10:42	50.0	+									+									
QC221556	MET07	08/07/03 12:15	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

06-AUG-2003 16:37

Curtis & Tompkins Laboratories Sample Preparation Summary

Batch Number : 83482
Date Extracted: 06-AUG-2003
Extracted by : Patricia V. Vergara
Prep Method : 3050

Analysis : N/A
Bgroun : ICAP
Units : 9
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Clean pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166668-011		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				TAL/ICP	
166668-012		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1				TAL/ICP	
166682-001		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166682-003		Treadwell & Rollo	Soil	2.23	g	100	44.8430	1				BA, CU, PB, SB, ZN	
166682-006		Treadwell & Rollo	Soil	2.32	g	100	43.1034	1				BA, CU, PB, SB, ZN	mss
166682-007		Treadwell & Rollo	Soil	2.15	g	100	46.5116	1				BA, CU, PB, SB, ZN	
166682-008		Treadwell & Rollo	Soil	2.22	g	100	45.0450	1				BA, CU, PB, SB, ZN	
166682-009		Treadwell & Rollo	Soil	2.42	g	100	41.3223	1				BA, CU, PB, SB, ZN	mss
166682-010		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166682-011		Treadwell & Rollo	Soil	2.17	g	100	46.0829	1				BA, CU, PB, SB, ZN	
166682-012		Treadwell & Rollo	Soil	2.13	g	100	46.9483	1				BA, CU, PB, SB, ZN	
166682-015		Treadwell & Rollo	Soil	2.11	g	100	47.3933	1				BA, CU, PB, SB, ZN	
166682-016		Treadwell & Rollo	Soil	2.18	g	100	45.8715	1				BA, CU, PB, SB, ZN	
166682-017		Treadwell & Rollo	Soil	2.29	g	100	43.6681	1				BA, CU, PB, SB, ZN	
166682-018		Treadwell & Rollo	Soil	2.01	g	100	49.7512	1				BA, CU, PB, SB, ZN	
166682-019		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	
166711-001		ConocoPhillips Company	Miscell.	2.13	g	100	46.9483	1				V	
166711-002		ConocoPhillips Company	Miscell.	2.07	g	100	48.3091	1				V	
166711-003		ConocoPhillips Company	Miscell.	2.25	g	100	44.4444	1				V	
166711-004		ConocoPhillips Company	Miscell.	2.12	g	100	47.1698	1				V	
QC221487	BLANK		Soil	2	g	100	50	1	1			ICAP	
QC221488	BS		Soil	2	g	100	50	1	1			ICAP	
QC221489	BSD		Soil	2	g	100	50	1	1			ICAP	
QC221490	MS	of 166682-007	Soil	2.04	g	100	49.0196	1	1	1		ICAP	
QC221491	MSD	of 166682-007	Soil	2.14	g	100	46.7289	1	1	1		ICAP	
QC221492	SER	of 166682-007	Soil	2.15	g	100	46.5116	1	1	1		ICAP	
QC221493	MS	of 166682-010	Soil	2.15	g	100	46.5116	1	1	1		ICAP	
QC221494	MSD	of 166682-010	Soil	2.21	g	100	45.2488	1	1	1		ICAP	

Prep Chemist: Patricia Vergara Reviewed By: MW Date: 8/6/03
Relinquished By: Patricia Vergara Received By: MW Date: 8/6/03

soil / misc Digestion

BK1775

08/04/03

Batch# 83482

ICAR/M 3050

SAMPLE ID	Init Vol (ml)	Final Vol (ml)	Filtered Yes/No	Comments
11666683 - 011	2.21	100.0	Yes	SPIKES
↓ 012	2.16			✓ 0355286 (1.0ml)
11666682 - 001	2.15			✓ 0355287 ↓
003	2.25			
006	2.32			
007 (MSS)	2.15			Reagents
008	2.22			1:1 HNO3 JT BAKER# 408024/080603
009	2.42			HNO3 JT BAKER# 405050
010 (MSS)	2.09			HNO3 JT BAKER# 42295317
011	2.17			1:1 HCL JT BAKER# 412024/08/0603
012	2.13			
015	2.11			
016	2.18			
017	2.29			
018	2.01			
019	2.33			
A-C 1166711 - 001 Comps	2.13			
002	2.07			
003	2.25			
004	2.12			
MB-OC 221487				
✓ BS 221488				
✓ BD 221489				
✓ MS-6682-007	2.04			
✓ MS-6682-007	2.14			
✓ MS-6682-010	2.15			
✓ MS-6682-010	2.21			

Continued on Page

Patricia Vergara

08/04/03

8/6/03

Batch Number : 83485
 Date Extracted: 06-AUG-2003
 Extracted by : Victor Vergara
 Prep Method : 3050
 Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :
 Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166668-026		Treadwell & Rollo	Soil	2.21	g	100	45.2488	1				BA, CU, PB, SB, ZN	
166668-027		Treadwell & Rollo	Soil	2.56	g	100	39.0625	1				BA, CU, PB, SB, ZN	
166668-028		Treadwell & Rollo	Soil	2.03	g	100	49.2610	1				BA, CU, PB, SB, ZN	
166668-029		Treadwell & Rollo	Soil	2.09	g	100	47.8468	1				BA, CU, PB, SB, ZN	
166668-030		Treadwell & Rollo	Soil	2.33	g	100	42.9184	1				BA, CU, PB, SB, ZN	
166668-031		Treadwell & Rollo	Soil	2.49	g	100	40.1606	1				BA, CU, PB, SB, ZN	
166682-004		Treadwell & Rollo	Soil	2.2	g	100	45.4545	1				TAL/ICP	
166682-005		Treadwell & Rollo	Soil	2.44	g	100	40.9836	1				TAL/ICP	
166682-013		Treadwell & Rollo	Soil	2.19	g	100	45.6621	1				TAL/ICP	mss
166733-001		Innovative Technical Solutions	Soil	2.11	g	100	47.3933	1				CU, PB, SB	
166733-002		Innovative Technical Solutions	Soil	2.88	g	100	34.7222	1				CU, PB, SB	
166733-003		Innovative Technical Solutions	Soil	2.63	g	100	38.0228	1				CU, PB, SB	
166758-002		Presidio Trust	Soil	2.11	g	100	47.3933	1				PB	
166758-003		Presidio Trust	Soil	2.34	g	100	42.7350	1				PB	
166758-004		Presidio Trust	Soil	2.09	g	100	47.8468	1				PB	
166758-005		Presidio Trust	Soil	2.11	g	100	47.3933	1				PB	
166758-006		Presidio Trust	Soil	2.16	g	100	46.2962	1				PB	
QC221498	BLANK		Soil	2	g	100	50	1	1	1		ICAP	
QC221499	BS		Soil	2	g	100	50	1	1	1		ICAP	
QC221500	BSD		Soil	2	g	100	50	1	1	1		ICAP	
QC221501	MS	of 166682-013	Soil	2.18	g	100	45.8715	1	1	1		ICAP	
QC221502	MSD	of 166682-013	Soil	2.5	g	100	40	1	1	1		ICAP	
QC221503	SER	of 166682-013	Soil	2.19	g	100	45.6621	1				ICAP	
QC221556	PDS	of 166682-013	Soil	2.19	g	100	45.6621	1				ICAP	

Prep Chemist: MW for VJ Reviewed By: AM Date: 8/7/03
 Relinquished By: AM Received By: AM Date: 8/7/03

Sole Digestion

08/06/03

B# 83485

ICAP/3050

Sample	Final val (m)	Filtered	yes/no	Comments
BK QC 221498	100	yes		SPKES
#BS 221499				* 0355286 (10m)
#BS 221500				* 0355287
* 166682-013 MS	2.18			
* -013 MS	2.50			
* 166682-026	2.21			
* -026	2.56			
* -028	2.03			
* -029	2.09			
* -030	2.33			
* -031	2.49			
* 166682-007				
* -007				
* -003				
* -004				
* -005				
* -006				
* -007				
* 166682-008				
* -008	2.20			
* 166682-004	2.44			
* -005	2.19			
* MS -013	2.11			
* 166753-001	2.88			
* -002	2.63			
* -003	2.11			
* 166758-002	2.34			
* -003	2.09			
* -004	2.11			
* -005	2.16			
* -006				

Continued on Page

Read and Understood By

[Signature]

Signed

08/06/03

Date

[Signature]

Signed

8/7/4

Date

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17726
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82361
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	icp15878	13246860013	165835-015	20-JUN-2003 13:56
2	icp15878	13246860014	165835-016	20-JUN-2003 13:59
3	icp15879	13246860016	165835-018	20-JUN-2003 14:07
4	icp15879	13246860017	165835-019	20-JUN-2003 14:14
5	icp15879	13246860018	165835-020	20-JUN-2003 14:17
6	icp15879	13246860019	165835-021	20-JUN-2003 14:20
7	icp15879	13246860021	165835-017	20-JUN-2003 14:30

Analyte	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	10.000000	10.265000	10.565000	10.720000	10.850000	10.880000	9.1400000	9.3050000	2.3	mg/Kg	u
Antimony	6.0000000	5.1850000	5.6050000	5.9500000	5.4950000	4.5905000	5.1150000	5.4550000	1.4	mg/Kg	u
Barium	1.0000000	1.0510000	1.0640000	1.0165000	1.0135000	1.0110000	0.9060000	0.9680000	0.17	mg/Kg	u
Beryllium	0.2000000	0.2681000	0.2712500	0.2710000	0.2751000	0.2649000	0.2502000	0.2808000	0.030	mg/Kg	u
Calcium	20.000000	20.105000	20.080000	19.505000	19.780000	19.015000	17.190000	17.885000	3.6	mg/Kg	u
Cobalt	2.0000000	1.9350000	1.9585000	1.8975000	1.9775000	1.8580000	1.7445000	1.9020000	0.25	mg/Kg	u
Copper	1.0000000	1.0555000	1.1025000	1.0675000	0.9805000	0.9785000	0.9450000	0.9145000	0.22	mg/Kg	u
Iron	10.000000	10.855000	10.425000	10.225000	10.365000	10.300000	9.3850000	9.7200000	1.5	mg/Kg	u
Magnesium	20.000000	18.880000	19.215000	18.970000	19.470000	18.730000	17.150000	17.590000	2.7	mg/Kg	u
Manganese	1.0000000	0.9225000	0.9340000	0.9325000	0.9445000	0.9725000	0.8505000	0.8345000	0.16	mg/Kg	u
Molybdenum	2.0000000	2.0810000	2.0650000	2.1815000	2.0880000	2.0590000	1.9790000	2.0000000	0.21	mg/Kg	u
Silver	0.5000000	0.4909500	0.4963000	0.3458000	0.3979000	0.3888000	0.3394000	0.3036500	0.23	mg/Kg	Bu
Zinc	2.0000000	2.3590000	2.2925000	2.1120000	2.1150000	2.0200000	2.0170000	2.1090000	0.41	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17728
Study Date: 20-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	icp15880	13246860025	165835-022	20-JUN-2003 14:56
2	icp15880	13246860026	165835-023	20-JUN-2003 14:58
3	icp15880	13246860027	165835-024	20-JUN-2003 15:01
4	icp15880	13246860028	165835-025	20-JUN-2003 15:03
5	icp15880	13246860029	165835-026	20-JUN-2003 15:05
6	icp15880	13246860030	165835-027	20-JUN-2003 15:08
7	icp15880	13246860031	165835-028	20-JUN-2003 15:10

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	Units	Flags
Cadmium	0.7500000	0.6970000	0.6700000	0.6555000	0.7260000	0.7830000	0.7190000	0.7675000	0.15	0.25	mg/Kg	Bu
Nickel	3.0000000	2.8370000	2.4365000	3.0390000	3.2460000	2.8850000	2.7440000	2.6855000	0.81	1.0	mg/Kg	Bu
Vanadium	1.5000000	1.3975000	1.4940000	1.4575000	1.4725000	1.3815000	1.3915000	1.5540000	0.20	0.50	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET01
Matrix : Soil
Partition : All

Study # : 17743
Study Date: 27-JUN-2003
Effective : 07-JUL-2003

Batchnum : 82540
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	icp15896	13256931017	165835-029	27-JUN-2003 11:21
2	icp15896	13256931018	165835-030	27-JUN-2003 11:25
3	icp15896	13256931019	165835-031	27-JUN-2003 12:33
4	icp15896	13256931020	165835-032	27-JUN-2003 12:36
5	icp15897	13256931021	165835-033	27-JUN-2003 12:42
6	icp15897	13256931022	165835-034	27-JUN-2003 12:45
7	icp15897	13256931023	165835-035	27-JUN-2003 12:49

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	50.000000	44.450000	46.605000	50.100000	50.450000	49.705000	49.555000	49.065000	6.9	25	mg/Kg	u
Chromium	1.00000000	0.85500000	1.09800000	1.02950000	1.01700000	0.95050000	1.11800000	1.00150000	0.28	0.50	mg/Kg	Bu
Lead	30.000000	29.090000	32.975000	31.890000	32.245000	28.100000	30.890000	30.575000	5.5	15	mg/Kg	u
Potassium	50.000000	47.905000	42.560000	42.820000	55.850000	41.830000	46.550000	50.750000	16	25	mg/Kg	Bu
Selenium	50.000000	45.580000	49.925000	49.850000	51.950000	50.500000	49.015000	48.370000	6.3	25	mg/Kg	u
Sodium	50.000000	52.650000	52.950000	54.450000	56.250000	56.000000	55.300000	56.150000	4.8	25	mg/Kg	Bu
Thallium	50.000000	47.560000	52.350000	53.200000	53.950000	48.675000	51.350000	52.150000	7.4	25	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg	u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg	u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg	u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg	u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg	u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg	u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg	u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg	u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg	u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg	u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg	u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg	u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg	u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg	u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Iron	2.5000000	2.7405000	2.9320000	3.2630000	3.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg u
Lead	0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg u
Silver	0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg u

3
3
3

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/Kg u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/Kg u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/Kg Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.75000000	0.63000000	0.61500000	0.64000000	0.55000000	0.51000000	0.51500000	0.55500000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83418
Date: 08/05/03
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166668-030	15.4181	21.6818	21.5927	99	1
166668-031	15.3258	21.5616	21.4760	99	1
166668-032	15.4916	22.5342	22.4339	99	1
166682-001	15.1932	21.1847	20.5869	90	10
166682-003	15.3349	23.2599	23.0960	98	2
166682-004	15.1948	22.0321	21.6711	95	5
166682-005	15.6888	21.4443	21.2771	97	3
166682-006	15.2659	21.9502	21.8225	98	2
166682-007	15.4320	21.1024	20.8249	95	5
166682-008	15.6272	22.1418	21.9012	96	4
166682-009	15.3347	21.7616	21.5076	96	4
166682-010	15.6187	21.0613	20.7636	95	5
166682-011	15.1174	21.6529	21.4278	97	3
166682-012	15.2886	21.1569	20.7219	93	7
166682-013	15.2853	21.2583	21.0212	96	4
166682-015	15.4593	22.9849	22.7386	97	3
166682-016	15.5678	21.9167	20.6709	80	20
166682-017	15.4806	21.8758	20.5598	79	21
166682-018	15.0659	22.4872	21.3237	84	16
166682-019	15.5754	23.9899	22.6040	84	16
QC221234	15.5686	22.0136	21.4155	91	9
of 166682-001			RPD:	0.8%	7.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83418
 Date Started: 04-AUG-2003
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166668-030		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-031		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166668-032		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-001		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-003		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-004		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-005		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-006		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-007		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-008		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-009		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-010		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-011		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-012		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-013		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-015		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-016		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-017		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-018		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
166682-019		Treadwell & Rollo	Soil	MOISTURE	07-AUG-2003
QC221234	SDUP	of 166682-001	Soil	MOISTURE	

PROJECT

MOISTURE

Continued From Page

8/4/03

83418

Sample	Dish #	Tare wt.	Ini. wt.	Fin. wt.	Comments
Blank	11B	4.2262	-	4.2260	
166668-30	40	15.4181	21.6818	21.5927	
-31	17	15.3258	21.5016	21.4760	
-32	44	15.4916	22.5342	22.4339	
166682-1	T	15.1932	21.1847	20.5869	
-1 DMP	29	15.5086	22.0136	21.4155	
-3	30	15.3349	23.2599	23.0960	
-4	146	15.1948	22.0321	21.6711	
-5	33	15.6888	21.4443	21.2771	
-6	34	15.2659	21.9502	21.8225	
-7	238	15.4320	21.1024	20.8244	
-8	1970	15.6272	22.1418	21.9012	
-9	3B1	15.3347	21.7616	21.5076	
-10	4	15.6187	21.0613	20.7636	
-11	263C	15.1134	21.6229	21.4778	
-12	263C 26	15.2886	21.1569	20.7219	
-13	35	15.2853	21.2583	21.0212	
-15	C	15.4593	22.9849	22.7384	
-16	18X	15.5678	21.9167	20.6709	
-17	24	15.4806	21.8758	20.5598	
-18	3B	15.0659	22.4872	21.3237	
-19	5X	15.5754	23.9899	22.6040	

OVEN TEMP: 175°C

TIME IN 2:40 pm

TIME OUT 9:25 A.M.

IN: 8/5/03

Continued on Page

R. Manning

8/4/03 ... L. D. ...

8/5/03



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 166716

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>
BAPSB11 [3]	166716-001
BAPSB08R [6.5]	166716-002
BAPSB08R [7.5]	166716-003
LCPSB33 [1]	166716-004
LCPSB33 [2]	166716-005
DUP080403A	166716-006
LCPSB31 [2]	166716-007
LCPSB31 [1]	166716-008
LCPSB [1] RB [2]	166716-009
LCPSB06 [0.3]	166716-010
LCPSB06 [1]	166716-011
LCPSB07 [0.3]	166716-012
LCPSB07 [1]	166716-013

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

8/19/03

Signature: _____

Project Manager

Date: _____

8/18/03

Laboratory Number: **166716**
Client: **Treadwell & Rollo**
Project Name: **Presidio Firing Ranges**

Order Date: **08/05/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water and twelve soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample BAPSB11 [3] (166716-001) for antimony were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements. No other analytical problems were encountered.

Chain of Custody

rec'd intact index

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery Street, Suite 1300

San Francisco, California 94111

Phone: 415/955-9040

Fax: 415/955-9041

FAX TRANSMITTALDate: 8/5/03 Send to fax # (510) 486-0532To: Steve StanleyFrom: Rhonda RichardsProject name: Piedra Fina Ranges Project number: 2893.07Number of pages, including this cover: 3Notes: Hi Steve,

I would like to change several sample
ID's from the SOGs delivered 8/1/03 (PM)
and 8/5/03. The changes are noted on the
attached COCs (#002862 and #002848)
Please confirm the change in an email
to me.

Thanks!This document will also be mailed to you: ☐ Yes ☐ No*Should you encounter any difficulties with this fax, please call 415/955-9040*

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SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 166716 Date Received: 8/5/03 Number of Coolers: 1
Client: TREADWELL & ROLLO Project: PRES. FIRING RANGES

A. Preliminary Examination Phase

Date Opened: 8/5/03 By (print): G. HAHN (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES ☒ NO
- If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler?..... YES ☒ NO
- How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO ^{N/A}
4. Were custody papers dry and intact when received?..... ☒ YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... ☒ YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO ^{N/A}
7. Was project identifiable from custody papers?..... ☒ YES NO
- If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ☒ YES NO
- Type of ice: BLUF Temperature: COLD

B. Login Phase

Date Logged In: 8/5/03 By (print): G. HAHN (sign) [Signature]

1. Describe type of packing in cooler: BAGGED IN ZIPLOC
2. Did all bottles arrive unbroken?..... ☒ YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... ☒ YES NO
4. Did bottle labels agree with custody papers?..... ☒ YES NO
5. Were appropriate containers used for the tests indicated?..... ☒ YES NO
6. Were correct preservatives added to samples?..... ☒ YES NO
7. Was sufficient amount of sample sent for tests indicated?..... ☒ YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO ^{N/A}
9. Was the client contacted concerning this sample delivery?..... YES NO
- If YES, give details below.
- Who was called? _____ By whom? _____ Date: _____

Additional Comments:

METALS

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	LCPSB[1]RB[2]	Sampled:	08/04/03
Matrix:	Water	Received:	08/05/03
Units:	ug/L	Prepared:	08/07/03
Diln Fac:	1.000	Analyzed:	08/11/03
Batch#:	83512		

Type: SAMPLE Lab ID: 166716-009

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Type: BLANK Lab ID: QC221602

Analyte	Result	RL
Antimony	ND	60
Barium	ND	10
Copper	ND	10
Lead	ND	3.0
Zinc	ND	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	83512
Units:	ug/L	Prepared:	08/07/03
Diln Fac:	1.000	Analyzed:	08/11/03

Type: BS Lab ID: QC221603

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	508.0	102	80-120
Barium	2,000	1,830	92	80-120
Copper	250.0	213.0	85	80-120
Lead	100.0	88.60	89	80-120
Zinc	500.0	439.0	88	80-120

Type: BSD Lab ID: QC221604

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	533.0	107	80-120	5	20
Barium	2,000	1,860	93	80-120	2	20
Copper	250.0	215.0	86	80-120	1	20
Lead	100.0	91.80	92	80-120	4	20
Zinc	500.0	451.0	90	80-120	3	20

Curtis & Tompkins Laboratories Analytical Report

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	83512
MSS Lab ID:	166704-004	Sampled:	08/01/03
Matrix:	Water	Received:	08/05/03
Units:	ug/L	Prepared:	08/07/03
Diln Fac:	1.000	Analyzed:	08/11/03

Type: MS Lab ID: QC221605

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	568.0	114	75-125
Barium	799.0	2,000	2,540	87	75-125
Copper	1.120	250.0	236.0	94	75-125
Lead	5.600	100.0	89.50	84	75-125
Zinc	135.0	500.0	554.0	84	75-125

Type: MSD Lab ID: QC221606

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	535.0	107	75-125	6	20
Barium	2,000	2,640	92	75-125	4	20
Copper	250.0	243.0	97	75-125	3	20
Lead	100.0	92.10	87	75-125	3	20
Zinc	500.0	574.0	88	75-125	4	20

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73321562073	Seqnum : 73321562076
Filename : tr213246	Filename : tr213249
IDF : 1.0	IDF : 5.0
PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : SER
Samplenum: 166704-004	Samplenum: QC221607
Matrix : Water	Matrix : Water
Batchnum : 83512	Batchnum : 83512
Inj : 11-AUG-2003 13:28	Inj : 11-AUG-2003 13:44
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	302	100	ND	500	--	10		u
Antimony	ND	60.0	ND	300	--	10		u
Arsenic	ND	5.00	ND	25.0	--	10		u
Barium	799	10.0	760	50.0	5	10		u
Beryllium	ND	2.00	ND	10.0	--	10		u
Cadmium	ND	5.00	ND	25.0	--	10		u
Calcium	58800	500	65400	2500	11	10		fu
Chromium	ND	10.0	ND	50.0	--	10		u
Cobalt	ND	20.0	ND	100	--	10		u
Copper	ND	10.0	ND	50.0	--	10		u
Iron	755	100	759	500	--	10		u
Lead	5.60	3.00	ND	15.0	--	10		u
Magnesium	16700	500	17100	2500	3	10		u
Manganese	103	10.0	113	50.0	9	10		u
Molybdenum	ND	20.0	ND	100	--	10		u
Nickel	ND	20.0	ND	100	--	10		u
Selenium	ND	5.00	ND	25.0	--	10		u
Silver	ND	5.00	ND	25.0	--	10		u
Thallium	ND	5.00	ND	25.0	--	10		u
Vanadium	ND	10.0	ND	50.0	--	10		u
Zinc	135	20.0	132	100	--	10		u
Titanium	12.4	10.0	ND	50.0	--	10		u

Method: 6010B Standard: blank
 Run Time: 08/11/03 07:09:36

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	.004	-.000	.004	-.626	.006	.002
SDev	.001	.001	.001	.002	.003	.001	.000
%RSD	50.5	12.6	1410.	46.4	.557	14.1	3.14
#1	-.003	.004	-.001	.006	-.628	.007	.002
#2	-.001	.003	.001	.003	-.623	.006	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.003	.014	-.004	.003	.003	-.008
SDev	.000	.001	.003	.001	.000	.000	.004
%RSD	4.56	35.8	22.0	16.9	9.64	1.79	44.9
#1	-.001	.003	.012	-.004	.003	.003	-.006
#2	-.001	.002	.016	-.003	.003	.003	-.011
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	.004	-.001	.002	.032	.1745	.0033
SDev	.003	.003	.001	.002	.000	.0001	.0001
%RSD	53.0	70.2	195.	69.7	1.19	.0540	1.428
#1	.004	.006	-.002	.003	.032	.1744	.0033
#2	.008	.002	.000	.001	.032	.1745	.0033
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0032	.0022	.001	.365			
SDev	.0007	.0003	.000	.001			
%RSD	20.62	14.78	26.9	.362			
#1	-.0027	.0025	.002	.364			
#2	-.0037	.0020	.001	.366			

Method: 6010B Standard: cst hi
Run Time: 08/11/03 07:15:41

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.77	1.05	.424	59.2	8.59	2.33	.600
SDev	.09	.04	.004	.1	.07	.01	.005
%RSD	5.34	4.12	.822	.107	.795	.517	.857
#1	1.70	1.02	.427	59.3	8.64	2.34	.603
#2	1.84	1.08	.422	59.2	8.54	2.32	.596
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.64	1.63	1.76	1.75	3.11	3.99	.464
SDev	.01	.00	.03	.01	.00	.03	.008
%RSD	.653	.027	1.84	.562	.123	.699	1.78
#1	1.65	1.63	1.78	1.74	3.12	4.01	.470
#2	1.63	1.63	1.73	1.75	3.11	3.97	.458
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.546	.956	.280	2.44	.343	.5121	.8554
SDev	.000	.004	.001	.01	.002	.0014	.0050
%RSD	.035	.434	.253	.507	.673	.2762	.5896
#1	.546	.959	.279	2.45	.345	.5111	.8590
#2	.546	.953	.280	2.43	.342	.5131	.8519
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.3122	.4627	2.68	23.3			
SDev	.0021	.0019	.01	.1			
%RSD	.6644	.4075	.397	.296			
#1	.3107	.4641	2.69	23.4			
#2	.3137	.4614	2.68	23.3			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	562.087	1.04923	08/11/03 07:15:41
Sb206A	206.832	Multiple	Standards	939.062	-3.50583	08/11/03 07:15:41
As1890	189.042	Multiple	Standards	1179.61	.078641	08/11/03 07:15:41
Ba4934	493.409	Multiple	Standards	16.8867	-.072050	08/11/03 07:15:41
Be3130	313.042	Multiple	Standards	10.4807	6.55953	08/11/03 07:15:41
Cd2265	226.502	Multiple	Standards	43.0363	-.273998	08/11/03 07:15:41
Cr2677	267.716	Multiple	Standards	334.636	-.501954	08/11/03 07:15:41
Co2286	228.616	Multiple	Standards	304.940	.315105	08/11/03 07:15:41
Cu3247	324.754	Multiple	Standards	122.915	-.323677	08/11/03 07:15:41
Pb2203	220.351	Multiple	Standards	287.228	-3.94460	08/11/03 07:15:41
Pb220A	220.352	Multiple	Standards	283.656	1.03062	08/11/03 07:15:41
Mo2020	202.030	Multiple	Standards	321.375	-.942699	08/11/03 07:15:41
Ni2316	231.604	Multiple	Standards	125.215	-.329733	08/11/03 07:15:41
Se1960	196.021	Multiple	Standards	1059.38	9.00471	08/11/03 07:15:41
Se196A	196.022	Multiple	Standards	924.679	-5.42479	08/11/03 07:15:41
Ag3280	328.068	Multiple	Standards	105.090	-.444880	08/11/03 07:15:41
Tl1908	190.864	Multiple	Standards	1794.85	1.25639	08/11/03 07:15:41
V_2924	292.402	Multiple	Standards	205.072	-.457994	08/11/03 07:15:41
Zn2138	213.856	Multiple	Standards	332.654	-10.5784	08/11/03 07:15:41
Al3082	308.215	Multiple	Standards	3000.27	-523.447	08/11/03 07:15:41
Ca3179	317.933	Multiple	Standards	2347.08	-7.74536	08/11/03 07:15:41
Fe2714	271.441	Multiple	Standards	3306.35	10.5803	08/11/03 07:15:41
Mg2790	279.079	Multiple	Standards	4341.92	-9.69696	08/11/03 07:15:41
Mn2576	257.610	Multiple	Standards	37.2921	-.052209	08/11/03 07:15:41
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Ti3349	334.941	Multiple	Standards	43.5884	-15.9068	08/11/03 07:15:41

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562001

Run Name :
Filename : tr213173

Injected : 11-AUG-2003 07:22
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	990.3000	ug/L	-1	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	503.0000	ug/L	1	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2000.000	ug/L	0	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	996.7000	ug/L	0	5	
Lead	500.0000	501.0000	ug/L	0	5	
Magnesium	2000.000	2007.000	ug/L	0	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	508.0000	ug/L	2	5	
Selenium	500.0000	496.0000	ug/L	-1	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	508.0000	ug/L	2	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	504.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562002

Run Name :
Filename : tr213174

Injected : 11-AUG-2003 07:26
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	500.0000	489.8000	ug/L	-2	10	
Antimony	500.0000	538.0000	ug/L	8	10	
Arsenic	250.0000	260.0000	ug/L	4	10	
Barium	500.0000	502.0000	ug/L	0	10	
Beryllium	50.00000	53.30000	ug/L	7	10	
Cadmium	50.00000	51.30000	ug/L	3	10	
Calcium	1000.000	1041.000	ug/L	4	10	
Chromium	100.0000	106.0000	ug/L	6	10	
Cobalt	250.0000	258.0000	ug/L	3	10	
Copper	100.0000	104.0000	ug/L	4	10	
Iron	500.0000	546.5000	ug/L	9	10	
Lead	250.0000	250.0000	ug/L	0	10	
Magnesium	1000.000	1057.000	ug/L	6	10	
Manganese	50.00000	52.00000	ug/L	4	10	
Molybdenum	500.0000	516.0000	ug/L	3	10	
Nickel	250.0000	263.0000	ug/L	5	10	
Selenium	250.0000	244.0000	ug/L	-2	10	
Silver	50.00000	51.30000	ug/L	3	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	520.0000	ug/L	4	10	
Vanadium	250.0000	258.0000	ug/L	3	10	
Zinc	50.00000	52.80000	ug/L	6	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562004

Run Name :
Filename : tr213176

Injected : 11-AUG-2003 07:35
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	93.26000	ug/L	-7		50	
Antimony	60.00000	71.40000	ug/L	19		50	
Arsenic	5.000000	3.400000	ug/L	-32		50	
Barium	10.00000	10.70000	ug/L	7		50	
Beryllium	2.000000	2.020000	ug/L	1		50	
Cadmium	5.000000	4.640000	ug/L	-7		50	
Chromium	10.00000	9.470000	ug/L	-5		50	
Cobalt	20.00000	19.00000	ug/L	-5		50	
Copper	10.00000	10.00000	ug/L	0		50	
Iron	100.0000	97.90000	ug/L	-2		50	
Lead	3.000000	1.770000	ug/L	-41		50	
Manganese	10.00000	9.580000	ug/L	-4		50	
Molybdenum	20.00000	18.90000	ug/L	-6		50	
Nickel	20.00000	19.30000	ug/L	-4		50	
Selenium	5.000000	5.670000	ug/L	13		50	
Silver	5.000000	4.550000	ug/L	-9		50	
Thallium	5.000000	2.800000	ug/L	-44		50	
Vanadium	10.00000	9.810000	ug/L	-2		50	
Zinc	20.00000	19.80000	ug/L	-1		50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562014

Run Name :
Filename : tr213186

Injected : 11-AUG-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	488.8000	ug/L	-2	10	
Antimony		500.0000	526.0000	ug/L	5	10	
Arsenic		250.0000	259.0000	ug/L	4	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	52.90000	ug/L	6	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1028.000	ug/L	3	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	255.0000	ug/L	2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	538.3000	ug/L	8	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1044.000	ug/L	4	10	
Manganese		50.00000	51.00000	ug/L	2	10	
Molybdenum		500.0000	506.0000	ug/L	1	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.50000	ug/L	1	10	
Thallium		250.0000	255.0000	ug/L	2	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	52.50000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562026

Run Name :
Filename : tr213198

Injected : 11-AUG-2003 09:38
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	778.6000	ug/L	4		10	
Antimony		750.0000	762.0000	ug/L	2		10	
Arsenic		375.0000	409.0000	ug/L	9		10	
Barium		750.0000	777.0000	ug/L	4		10	
Beryllium		75.00000	82.10000	ug/L	9		10	
Cadmium		75.00000	78.90000	ug/L	5		10	
Calcium		1500.000	1617.000	ug/L	8		10	
Chromium		150.0000	161.0000	ug/L	7		10	
Cobalt		375.0000	396.0000	ug/L	6		10	
Copper		150.0000	161.0000	ug/L	7		10	
Iron		750.0000	808.4000	ug/L	8		10	
Lead		375.0000	389.0000	ug/L	4		10	
Magnesium		1500.000	1622.000	ug/L	8		10	
Manganese		75.00000	79.50000	ug/L	6		10	
Molybdenum		750.0000	774.0000	ug/L	3		10	
Nickel		375.0000	402.0000	ug/L	7		10	
Selenium		375.0000	386.0000	ug/L	3		10	
Silver		75.00000	78.80000	ug/L	5		10	
Thallium		375.0000	386.0000	ug/L	3		10	
Titanium		750.0000	801.0000	ug/L	7		10	
Vanadium		375.0000	396.0000	ug/L	6		10	
Zinc		75.00000	80.00000	ug/L	7		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562038

Run Name :
Filename : tr213210

Injected : 11-AUG-2003 10:44
Caltype :

Standards: ,03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	512.1000	ug/L	2	10	
Antimony		500.0000	535.0000	ug/L	7	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	1000.000	ug/L	0	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	548.7000	ug/L	10	10	
Lead		250.0000	261.0000	ug/L	4	10	
Magnesium		1000.000	1022.000	ug/L	2	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	507.0000	ug/L	1	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	50.90000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562050

Run Name :
Filename : tr213222

Injected : 11-AUG-2003 11:39
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	747.5000	ug/L	0		10	
Antimony		750.0000	715.0000	ug/L	-5		10	
Arsenic		375.0000	386.0000	ug/L	3		10	
Barium		750.0000	734.0000	ug/L	-2		10	
Beryllium		75.00000	76.50000	ug/L	2		10	
Cadmium		75.00000	73.60000	ug/L	-2		10	
Calcium		1500.000	1495.000	ug/L	0		10	
Chromium		150.0000	149.0000	ug/L	-1		10	
Cobalt		375.0000	368.0000	ug/L	-2		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	737.3000	ug/L	-2		10	
Lead		375.0000	363.0000	ug/L	-3		10	
Magnesium		1500.000	1541.000	ug/L	3		10	
Manganese		75.00000	71.60000	ug/L	-5		10	
Molybdenum		750.0000	730.0000	ug/L	-3		10	
Nickel		375.0000	377.0000	ug/L	1		10	
Selenium		375.0000	369.0000	ug/L	-2		10	
Silver		75.00000	73.90000	ug/L	-1		10	
Thallium		375.0000	366.0000	ug/L	-2		10	
Titanium		750.0000	749.0000	ug/L	0		10	
Vanadium		375.0000	365.0000	ug/L	-3		10	
Zinc		75.00000	75.50000	ug/L	1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562062

Run Name :
Filename : tr213235

Injected : 11-AUG-2003 12:41
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.0000	ug/L	-2	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.00000	ug/L	-2	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	912.3000	ug/L	-9	10	
Chromium		100.0000	97.00000	ug/L	-3	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	93.90000	ug/L	-6	10	
Iron		500.0000	512.9000	ug/L	3	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	972.9000	ug/L	-3	10	
Manganese		50.00000	46.00000	ug/L	-8	10	
Molybdenum		500.0000	479.0000	ug/L	-4	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	47.30000	ug/L	-5	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	235.0000	ug/L	-6	10	
Zinc		50.00000	50.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562074

Run Name :
Filename : tr213247

Injected : 11-AUG-2003 13:33
Caltpe :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	740.7000	ug/L	-1		10	
Antimony		750.0000	706.0000	ug/L	-6		10	
Arsenic		375.0000	381.0000	ug/L	2		10	
Barium		750.0000	734.0000	ug/L	-2		10	
Beryllium		75.00000	76.20000	ug/L	2		10	
Cadmium		75.00000	73.00000	ug/L	-3		10	
Calcium		1500.000	1504.000	ug/L	0		10	
Chromium		150.0000	150.0000	ug/L	0		10	
Cobalt		375.0000	368.0000	ug/L	-2		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	727.1000	ug/L	-3		10	
Lead		375.0000	362.0000	ug/L	-3		10	
Magnesium		1500.000	1505.000	ug/L	0		10	
Manganese		75.00000	73.80000	ug/L	-2		10	
Molybdenum		750.0000	728.0000	ug/L	-3		10	
Nickel		375.0000	373.0000	ug/L	-1		10	
Selenium		375.0000	367.0000	ug/L	-2		10	
Silver		75.00000	75.40000	ug/L	1		10	
Thallium		375.0000	366.0000	ug/L	-2		10	
Titanium		750.0000	750.0000	ug/L	0		10	
Vanadium		375.0000	369.0000	ug/L	-2		10	
Zinc		75.00000	74.50000	ug/L	-1		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562085

Run Name :
Filename : tr213258

Injected : 11-AUG-2003 14:30
Calttype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	707.1000	ug/L	-6		10	
Antimony		750.0000	695.0000	ug/L	-7		10	
Arsenic		375.0000	377.0000	ug/L	1		10	
Barium		750.0000	723.0000	ug/L	-4		10	
Beryllium		75.00000	73.10000	ug/L	-3		10	
Cadmium		75.00000	72.00000	ug/L	-4		10	
Calcium		1500.000	1407.000	ug/L	-6		10	
Chromium		150.0000	144.0000	ug/L	-4		10	
Cobalt		375.0000	355.0000	ug/L	-5		10	
Copper		150.0000	144.0000	ug/L	-4		10	
Iron		750.0000	694.4000	ug/L	-7		10	
Lead		375.0000	355.0000	ug/L	-5		10	
Magnesium		1500.000	1443.000	ug/L	-4		10	
Manganese		75.00000	70.00000	ug/L	-7		10	
Molybdenum		750.0000	709.0000	ug/L	-5		10	
Nickel		375.0000	364.0000	ug/L	-3		10	
Selenium		375.0000	363.0000	ug/L	-3		10	
Silver		75.00000	71.60000	ug/L	-5		10	
Thallium		375.0000	362.0000	ug/L	-3		10	
Titanium		750.0000	723.0000	ug/L	-4		10	
Vanadium		375.0000	354.0000	ug/L	-6		10	
Zinc		75.00000	72.30000	ug/L	-4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562097

Run Name :
Filename : tr213270

Injected : 11-AUG-2003 15:20
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	495.8000	ug/L	-1	10	
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	49.00000	ug/L	-2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	930.7000	ug/L	-7	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	95.80000	ug/L	-4	10	
Iron		500.0000	537.5000	ug/L	8	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1005.000	ug/L	1	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	484.0000	ug/L	-3	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	47.60000	ug/L	-5	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	490.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562109

Run Name :
Filename : tr213282

Injected : 11-AUG-2003 16:13
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	483.7000	ug/L	-3	10	
Antimony		500.0000	484.0000	ug/L	-3	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	49.50000	ug/L	-1	10	
Calcium		1000.000	906.1000	ug/L	-9	10	
Chromium		100.0000	96.10000	ug/L	-4	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	93.80000	ug/L	-6	10	
Iron		500.0000	502.0000	ug/L	0	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	972.3000	ug/L	-3	10	
Manganese		50.00000	46.40000	ug/L	-7	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	46.80000	ug/L	-6	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	486.0000	ug/L	-3	10	
Vanadium		250.0000	236.0000	ug/L	-6	10	
Zinc		50.00000	51.20000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562003
Filename: tr213175

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 11-AUG-2003 07:31

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[1.5000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.3600]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.7854]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1720]	10.00000	ug/L	<RL	
Iron	[5.6350]	100.0000	ug/L	<RL	
Lead	[0.7010]	3.000000	ug/L	<RL	
Magnesium	[1.4480]	500.0000	ug/L	<RL	
Manganese	[0.0460]	10.00000	ug/L	<RL	
Molybdenum	[1.2100]	20.00000	ug/L	<RL	
Nickel	[0.0570]	20.00000	ug/L	<RL	
Selenium	[1.8800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.0400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.2910]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562015
Filename: tr213187

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 08:30

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[1.2000]	100.0000	ug/L	<RL	
Antimony	[1.4600]	60.00000	ug/L	<RL	
Arsenic	[1.3300]	5.000000	ug/L	<RL	
Barium	[0.0430]	10.00000	ug/L	<RL	
Beryllium	[0.2340]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.7220]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1720]	10.00000	ug/L	<RL	
Iron	[2.7750]	100.0000	ug/L	<RL	
Lead	[0.0370]	3.000000	ug/L	<RL	
Magnesium	[5.3550]	500.0000	ug/L	<RL	
Manganese	[0.0720]	10.00000	ug/L	<RL	
Molybdenum	[1.9900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.0000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.7560]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562027
Filename: tr213199

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 09:51

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[6.8870]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.3100]	5.000000	ug/L	<RL	
Barium	[0.0590]	10.00000	ug/L	<RL	
Beryllium	[0.5380]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.5190]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.4490]	100.0000	ug/L	<RL	
Lead	[0.1870]	3.000000	ug/L	<RL	
Magnesium	[3.3330]	500.0000	ug/L	<RL	
Manganese	[0.0760]	10.00000	ug/L	<RL	
Molybdenum	[2.5900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.0800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.6100]	5.000000	ug/L	<RL	
Titanium	[2.2400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.8050]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562039
Filename: tr213211

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 10:53

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[17.680]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0260]	10.00000	ug/L	<RL	
Beryllium	[0.7390]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.9740]	500.0000	ug/L	<RL	
Chromium	[0.0110]	10.00000	ug/L	<RL	
Cobalt	[0.2140]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.5440]	100.0000	ug/L	<RL	
Lead	[1.7100]	3.000000	ug/L	<RL	
Magnesium	[1.5280]	500.0000	ug/L	<RL	
Manganese	[0.1020]	10.00000	ug/L	<RL	
Molybdenum	[0.5580]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.1900]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.2830]	5.000000	ug/L	<RL	
Titanium	[1.6200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.5760]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73321562051
Filename: tr213223

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 11:45

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[28.440]	100.0000	ug/L	<RL		
Antimony	[8.1100]	60.00000	ug/L	<RL		
Arsenic	[1.5700]	5.000000	ug/L	<RL		
Barium	[0.1150]	10.00000	ug/L	<RL		
Beryllium	[1.1700]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[11.530]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.2140]	10.00000	ug/L	<RL		
Copper	[0.3030]	10.00000	ug/L	<RL		
Iron	[6.1010]	100.0000	ug/L	<RL		
Lead	[0.9860]	3.000000	ug/L	<RL		
Magnesium	[11.250]	500.0000	ug/L	<RL		
Manganese	[0.0940]	10.00000	ug/L	<RL		
Molybdenum	[5.3200]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[0.0750]	5.000000	ug/L	<RL		
Silver	[0.0750]	5.000000	ug/L	<RL		
Thallium	[3.2300]	5.000000	ug/L	<RL		
Titanium	[3.1600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.8340]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562063
Filename: tr213236

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 12:47

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[35.450]	100.0000	ug/L	<RL		
Antimony	[2.1700]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0570]	10.00000	ug/L	<RL		
Beryllium	[0.0430]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[6.1510]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.1070]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[19.770]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[7.7780]	500.0000	ug/L	<RL		
Manganese	[0.2910]	10.00000	ug/L	<RL		
Molybdenum	[1.8700]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[4.4300]	5.000000	ug/L	<RL		
Titanium	[2.7200]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.1100]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562075
Filename: tr213248

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 13:40

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[42.970]	100.0000	ug/L	<RL		
Antimony	[11.200]	60.00000	ug/L	<RL		
Arsenic	[0.7800]	5.000000	ug/L	<RL		
Barium	[0.2440]	10.00000	ug/L	<RL		
Beryllium	[0.8910]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[7.2890]	500.0000	ug/L	<RL		
Chromium	[0.0220]	10.00000	ug/L	<RL		
Cobalt	[0.1550]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[12.890]	100.0000	ug/L	<RL		
Lead	[1.2600]	3.000000	ug/L	<RL		
Magnesium	[6.2280]	500.0000	ug/L	<RL		
Manganese	[0.1560]	10.00000	ug/L	<RL		
Molybdenum	[5.6100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.8800]	5.000000	ug/L	<RL		
Silver	[0.1590]	5.000000	ug/L	<RL		
Thallium	[0.5130]	5.000000	ug/L	<RL		
Titanium	[3.2600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.0300]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562086
Filename: tr213259

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 14:35

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[50.040]	100.0000	ug/L	<RL		
Antimony	[1.5900]	60.00000	ug/L	<RL		
Arsenic	[0.0350]	5.000000	ug/L	<RL		
Barium	[0.1680]	10.00000	ug/L	<RL		
Beryllium	[1.6800]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[13.440]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0720]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[13.610]	100.0000	ug/L	<RL		
Lead	[0.0920]	3.000000	ug/L	<RL		
Magnesium	[9.9340]	500.0000	ug/L	<RL		
Manganese	[0.3280]	10.00000	ug/L	<RL		
Molybdenum	[4.2400]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.5800]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.8070]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562098
Filename: tr213271

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 15:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[44.450]	100.0000	ug/L	<RL	
Antimony	[5.6200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.1130]	10.00000	ug/L	<RL	
Beryllium	[0.5230]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.3230]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.0310]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[22.190]	100.0000	ug/L	<RL	
Lead	[1.8800]	3.000000	ug/L	<RL	
Magnesium	[11.270]	500.0000	ug/L	<RL	
Manganese	[0.3410]	10.00000	ug/L	<RL	
Molybdenum	[1.9700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.1000]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.9630]	5.000000	ug/L	<RL	
Titanium	[2.5000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.8400]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562110
Filename: tr213283

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 16:22

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	[46.910]	100.0000	ug/L	<RL		
Antimony	[10.200]	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	[0.0820]	10.00000	ug/L	<RL		
Beryllium	[0.9030]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[4.4640]	100.0000	ug/L	<RL		
Lead	[1.5500]	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.1080]	10.00000	ug/L	<RL		
Molybdenum	[3.0200]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.5690]	5.000000	ug/L	<RL		
Titanium	[2.1400]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.1000]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562005

Run Name :
Filename : tr213177

Injected : 11-AUG-2003 07:42
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	454600.0	ug/L	-9			
Antimony	500.0000	501.0000	ug/L	0	20		
Arsenic	500.0000	497.0000	ug/L	-1	20		
Barium	500.0000	456.0000	ug/L	-9	20		
Beryllium	500.0000	451.0000	ug/L	-10	20		
Cadmium	1000.000	870.0000	ug/L	-13	20		
Calcium	500000.0	386300.0	ug/L	-23			
Chromium	500.0000	429.0000	ug/L	-14	20		
Cobalt	500.0000	425.0000	ug/L	-15	20		
Copper	500.0000	486.0000	ug/L	-3	20		
Iron	200000.0	164300.0	ug/L	-18			
Lead	1000.000	908.0000	ug/L	-9	20		
Magnesium	500000.0	473800.0	ug/L	-5			
Manganese	500.0000	433.0000	ug/L	-13	20		
Molybdenum	500.0000	436.0000	ug/L	-13	20		
Nickel	1000.000	931.0000	ug/L	-7	20		
Selenium	500.0000	463.0000	ug/L	-7	20		
Silver	1000.000	990.0000	ug/L	-1	20		
Thallium	500.0000	416.0000	ug/L	-17	20		
Titanium	20000.00	1800.000	ug/L	-91			
Vanadium	500.0000	436.0000	ug/L	-13	20		
Zinc	1000.000	931.0000	ug/L	-7	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 73321562049

Run Name :
Filename : tr213221

Injected : 11-AUG-2003 11:33
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	443700.0	ug/L	-11		
Antimony	500.0000	473.0000	ug/L	-5	20	
Arsenic	500.0000	494.0000	ug/L	-1	20	
Barium	500.0000	461.0000	ug/L	-8	20	
Beryllium	500.0000	436.0000	ug/L	-13	20	
Cadmium	1000.000	855.0000	ug/L	-15	20	
Calcium	500000.0	374100.0	ug/L	-25		
Chromium	500.0000	421.0000	ug/L	-16	20	
Cobalt	500.0000	415.0000	ug/L	-17	20	
Copper	500.0000	488.0000	ug/L	-2	20	
Iron	200000.0	161900.0	ug/L	-19		
Lead	1000.000	908.0000	ug/L	-9	20	
Magnesium	500000.0	468500.0	ug/L	-6		
Manganese	500.0000	418.0000	ug/L	-16	20	
Molybdenum	500.0000	430.0000	ug/L	-14	20	
Nickel	1000.000	918.0000	ug/L	-8	20	
Selenium	500.0000	465.0000	ug/L	-7	20	
Silver	1000.000	914.0000	ug/L	-9	20	
Thallium	500.0000	420.0000	ug/L	-16	20	
Titanium	20000.00	1800.000	ug/L	-91		
Vanadium	500.0000	429.0000	ug/L	-14	20	
Zinc	1000.000	915.0000	ug/L	-9	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562111

Run Name :
Filename : tr213285

Injected : 11-AUG-2003 16:29
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	393100.0	ug/L	-21		
Antimony	500.0000	489.0000	ug/L	-2	20	
Arsenic	500.0000	482.0000	ug/L	-4	20	
Barium	500.0000	456.0000	ug/L	-9	20	
Beryllium	500.0000	429.0000	ug/L	-14	20	
Cadmium	1000.000	839.0000	ug/L	-16	20	
Calcium	500000.0	338300.0	ug/L	-32		
Chromium	500.0000	420.0000	ug/L	-16	20	
Cobalt	500.0000	415.0000	ug/L	-17	20	
Copper	500.0000	491.0000	ug/L	-2	20	
Iron	200000.0	151900.0	ug/L	-24		
Lead	1000.000	894.0000	ug/L	-11	20	
Magnesium	500000.0	439900.0	ug/L	-12		
Manganese	500.0000	429.0000	ug/L	-14	20	
Molybdenum	500.0000	439.0000	ug/L	-12	20	
Nickel	1000.000	899.0000	ug/L	-10	20	
Selenium	500.0000	450.0000	ug/L	-10	20	
Silver	1000.000	984.0000	ug/L	-2	20	
Thallium	500.0000	403.0000	ug/L	-19	20	
Titanium	20000.00	1800.000	ug/L	-91		
Vanadium	500.0000	434.0000	ug/L	-13	20	
Zinc	1000.000	894.0000	ug/L	-11	20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73321562 Instrument: MET07 TJA Trace ICP Begun: 11-AUG-2003

#	Filename Type	Sample Number	Batch	Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	tr213173 CS			11-AUG-2003	07:22	1.0		1	
002	tr213174 ICB			11-AUG-2003	07:26	1.0		2	
003	tr213175 ICB			11-AUG-2003	07:31	1.0			
004	tr213176 CRI			11-AUG-2003	07:35	1.0		3	
005	tr213177 ICSAB			11-AUG-2003	07:42	1.0		4	4:MG=473800
006	tr213178 BLANK	QC221888	83581	Water	11-AUG-2003	07:47	1.0		
007	tr213179 BS	QC221889	83581	Water	11-AUG-2003	07:54	1.0		
008	tr213180 BSD	QC221890	83581	Water	11-AUG-2003	07:58	1.0		
009	tr213181 MSS	166829-001	83581	Water	11-AUG-2003	08:03	1.0		
010	tr213182 MS	QC221891	83581	Water	11-AUG-2003	08:08	1.0		
011	tr213183 MSD	QC221892	83581	Water	11-AUG-2003	08:12	1.0		
012	tr213184 SAMPLE	166829-015	83581	Water	11-AUG-2003	08:17	1.0		
013	tr213185 SAMPLE	166791-001	83581	Water	11-AUG-2003	08:21	1.0		
014	tr213186 CCV			11-AUG-2003	08:26	1.0		5	
015	tr213187 CCB			11-AUG-2003	08:30	1.0			
016	tr213188 BLANK	QC221870	83578	Soil	11-AUG-2003	08:36	1.0		
017	tr213189 BS	QC221871	83578	Soil	11-AUG-2003	08:40	1.0		
018	tr213190 BSD	QC221872	83578	Soil	11-AUG-2003	08:44	1.0		
019	tr213191 MSS	166829-002	83578	Soil	11-AUG-2003	08:51	1.0		
020	tr213192 SER	QC221875	83578	Soil	11-AUG-2003	09:03	5.0		
021	tr213193 MS	QC221873	83578	Soil	11-AUG-2003	09:07	1.0		
022	tr213194 MSD	QC221874	83578	Soil	11-AUG-2003	09:10	1.0		
023	tr213195 SAMPLE	166829-003	83578	Soil	11-AUG-2003	09:16	1.0		
024	tr213196 SAMPLE	166829-004	83578	Soil	11-AUG-2003	09:20	1.0		
025	tr213197 SAMPLE	166829-005	83578	Soil	11-AUG-2003	09:24	1.0		
026	tr213198 CCV			11-AUG-2003	09:38	1.0		6	
027	tr213199 CCB			11-AUG-2003	09:51	1.0			
028	tr213200 SAMPLE	166829-006	83578	Soil	11-AUG-2003	09:56	1.0		
029	tr213201 SAMPLE	166829-007	83578	Soil	11-AUG-2003	10:00	1.0		
030	tr213202 SAMPLE	166829-008	83578	Soil	11-AUG-2003	10:04	1.0		
031	tr213203 SAMPLE	166829-009	83578	Soil	11-AUG-2003	10:08	1.0		
032	tr213204 SAMPLE	166829-010	83578	Soil	11-AUG-2003	10:12	1.0		
									3:FE=216000
									3:FE=217700
									3:FE=200700
									2:FE=172600
									2:FE=176600
									2:FE=191000
									3:FE=183300
									2:FE=169300
									2:FE=168900
									3:FE=176900
									1:FE=144400

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: Mark Date: 8/13

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73321562 Instrument: MET07 TJA Trace ICP Begun: 11-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
033	tr213205	SAMPLE	166829-011	83578	Soil	11-AUG-2003	10:16	1.0	40.65041					3:FE=358700
034	tr213206	SAMPLE	166829-012	83578	Soil	11-AUG-2003	10:20	1.0	44.05286					3:FE=290900
035	tr213207	SAMPLE	166829-013	83578	Soil	11-AUG-2003	10:24	1.0	47.84689					5:FE=351200
036	tr213208	SAMPLE	166829-014	83578	Soil	11-AUG-2003	10:27	1.0	49.50495					4:FE=314600
037	tr213209	SAMPLE	166805-001	83578	Soil	11-AUG-2003	10:31	1.0	35.46099	1				2:PB=296000
038	tr213210	CCV				11-AUG-2003	10:44	1.0	1.0			5		
039	tr213211	CCB				11-AUG-2003	10:53	1.0	1.0					
040	tr213212	SAMPLE	166805-001	83578	Soil	11-AUG-2003	10:57	50.0	35.46099					
041	tr213213	SAMPLE	166805-002	83578	Soil	11-AUG-2003	11:01	1.0	35.71429	1				1:PB=57600.0
042	tr213214	SAMPLE	166805-003	83578	Soil	11-AUG-2003	11:05	1.0	37.17472					2:AL=177200
043	tr213215	SAMPLE	166818-001	83578	Soil	11-AUG-2003	11:09	1.0	43.85965	1				4:FE=292800
044	tr213216	SAMPLE	166818-002	83578	Soil	11-AUG-2003	11:13	1.0	42.01681					
045	tr213217	SAMPLE	166818-003	83578	Soil	11-AUG-2003	11:16	1.0	37.17472					2:AL=175200
046	tr213218	SAMPLE	166805-002	83578	Soil	11-AUG-2003	11:21	50.0	35.71429					
047	tr213219	SAMPLE	166818-001	83578	Soil	11-AUG-2003	11:25	50.0	43.85965					
048	tr213220	SAMPLE	166816-001	83578	Miscel	11-AUG-2003	11:28	10.0	44.24779	1				1:CU=57500.0
049	tr213221	ICSAB				11-AUG-2003	11:33	1.0	1.0			4		4:MG=468500
050	tr213222	CCV				11-AUG-2003	11:39	1.0	1.0			6		
051	tr213223	CCB				11-AUG-2003	11:45	1.0	1.0					
052	tr213224	BLANK	QC221638	83521	Soil	11-AUG-2003	11:49	1.0	50.0					
053	tr213225	BS	QC221639	83521	Soil	11-AUG-2003	11:58	1.0	50.0					
054	tr213226	BSD	QC221640	83521	Soil	11-AUG-2003	12:02	1.0	50.0					
055	tr213227	MSS	166716-001	83521	Soil	11-AUG-2003	12:06	1.0	42.19409	2				2:FE=220800
056	tr213229	MS	QC221641	83521	Soil	11-AUG-2003	12:16	1.0	44.84305					2:FE=258800
057	tr213230	MSD	QC221642	83521	Soil	11-AUG-2003	12:19	1.0	42.01681					2:FE=272100
058	tr213231	SER	QC221643	83521	Soil	11-AUG-2003	12:23	5.0	42.19409					
059	tr213232	SAMPLE	166731-001	83521	Soil	11-AUG-2003	12:27	1.0	45.66210					2:FE=302100
060	tr213233	SAMPLE	166731-003	83521	Soil	11-AUG-2003	12:31	1.0	40.81633					2:FE=312600
061	tr213234	SAMPLE	166731-005	83521	Soil	11-AUG-2003	12:34	1.0	43.47826					2:FE=248900
062	tr213235	CCV				11-AUG-2003	12:41	1.0	1.0			5		
063	tr213236	CCB				11-AUG-2003	12:47	1.0	1.0					
064	tr213237	SAMPLE	166731-007	83521	Soil	11-AUG-2003	12:54	1.0	41.49378					2:FE=225900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: M. J. J. Date: 8/15

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 11-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73321562

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
065	tr213238	SAMPLE	166731-009	83521	Soil	11-AUG-2003	12:57	1.0	44.24779					2:FE=256300
066	tr213239	SAMPLE	166731-011	83521	Soil	11-AUG-2003	13:01	1.0	44.05286					2:FE=260200
067	tr213240	SAMPLE	166731-013	83521	Soil	11-AUG-2003	13:04	1.0	46.51163					2:FE=264400
068	tr213241	SAMPLE	166581-010	83515	Air	11-AUG-2003	13:10	10.0	600.0240					
069	tr213242	SAMPLE	166716-013	83521	Soil	11-AUG-2003	13:14	1.0	48.78049					1:FE=141100
070	tr213243	BLANK	QC221602	83512	Water	11-AUG-2003	13:17	1.0	1.0					
071	tr213244	BS	QC221603	83512	Water	11-AUG-2003	13:21	1.0	1.0					
072	tr213245	BSD	QC221604	83512	Water	11-AUG-2003	13:24	1.0	1.0					
073	tr213246	MSS	166704-004	83512	Water	11-AUG-2003	13:28	1.0	1.0					
074	tr213247	CCV				11-AUG-2003	13:33	1.0	1.0			6		
075	tr213248	CCB				11-AUG-2003	13:40	1.0	1.0					
076	tr213249	SER	QC221607	83512	Water	11-AUG-2003	13:44	5.0	1.0		1			
077	tr213250	MS	QC221605	83512	Water	11-AUG-2003	13:48	1.0	1.0					
078	tr213251	MSD	QC221606	83512	Water	11-AUG-2003	13:52	1.0	1.0					
079	tr213252	SAMPLE	166716-009	83512	Water	11-AUG-2003	13:55	1.0	1.0					
080	tr213253	SAMPLE	166721-001	83512	Water	11-AUG-2003	13:59	1.0	1.0					2:CA=272500
081	tr213254	SAMPLE	166731-015	83512	Water	11-AUG-2003	14:02	1.0	1.0					2:CA=418900
082	tr213255	SAMPLE	166731-016	83512	Water	11-AUG-2003	14:06	1.0	1.0		2			1:CA=198500
083	tr213256	SAMPLE	166731-017	83512	Water	11-AUG-2003	14:09	1.0	1.0					1:CA=194300
084	tr213257	SAMPLE	166731-017	83512	Water	11-AUG-2003	14:22	1.0	1.0			6		
085	tr213258	CCV				11-AUG-2003	14:30	1.0	1.0					
086	tr213259	CCB				11-AUG-2003	14:35	1.0	1.0					
087	tr213260	BLANK	QC221882	83580	Soil	11-AUG-2003	14:41	1.0	50.0					
088	tr213261	BS	QC221883	83580	Soil	11-AUG-2003	14:45	1.0	50.0					
089	tr213262	BSD	QC221884	83580	Soil	11-AUG-2003	14:48	1.0	50.0					
090	tr213263	MSS	166642-001	83580	Soil	11-AUG-2003	14:52	1.0	45.04505	4				4:FE=726400
091	tr213264	MS	QC221885	83580	Soil	11-AUG-2003	14:55	1.0	45.45455					4:MG=742500
092	tr213265	MSD	QC221886	83580	Soil	11-AUG-2003	14:59	1.0	41.49378	2				4:FE=793100
093	tr213266	SAMPLE	166707-002	83580	Soil	11-AUG-2003	15:02	1.0	44.44444					3:FE=351800
094	tr213267	SAMPLE	166707-003	83580	Soil	11-AUG-2003	15:06	1.0	38.91051					2:FE=187500
095	tr213268	SAMPLE	166707-004	83580	Soil	11-AUG-2003	15:09	1.0	35.46099					2:FE=282100
096	tr213269	SER	QC221887	83580	Soil	11-AUG-2003	15:16	5.0	45.04505	1				3:FE=149300

Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: March Date: 8/13

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 73321562 Instrument: MET07 TJA Trace ICP Begun: 11-AUG-2003

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
097	tr213270	CCV				11-AUG-2003	15:20	1.0				5		
098	tr213271	CCB				11-AUG-2003	15:26	1.0						
099	tr213272	MSS	166642-001	83580	Soil	11-AUG-2003	15:30	20.0	45.04505					
100	tr213273	SAMPLE	166707-005	83580	Soil	11-AUG-2003	15:35	1.0	46.08295					3:FE=257400
101	tr213274	SAMPLE	166707-008	83580	Soil	11-AUG-2003	15:38	1.0	47.84689					4:FE=237700
102	tr213275	SAMPLE	166707-009	83580	Soil	11-AUG-2003	15:42	1.0	50.0					4:FE=310400
103	tr213276	SAMPLE	166642-002	83580	Soil	11-AUG-2003	15:45	1.0	37.03704					5:MG=765000
104	tr213277	SAMPLE	166642-003	83580	Soil	11-AUG-2003	15:51	10.0	47.84689					2:FE=176100
105	tr213278	SAMPLE	166642-004	83580	Soil	11-AUG-2003	15:55	1.0	45.66210					4:FE=433000
106	tr213279	SAMPLE	166642-005	83580	Soil	11-AUG-2003	15:59	1.0	41.15226					3:FE=273000
107	tr213280	SAMPLE	166707-012	83580	Soil	11-AUG-2003	16:02	1.0	38.91051					2:FE=192900
108	tr213281	SAMPLE	166815-001	83580	Miscel	11-AUG-2003	16:06	1.0	42.91845					2:FE=153500
109	tr213282	CCV				11-AUG-2003	16:13	1.0	1.0			5		
110	tr213283	CCB				11-AUG-2003	16:22	1.0	1.0					
111	tr213285	ICSAB				11-AUG-2003	16:29	1.0	1.0			4		4:MG=439900

Std used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: Date: 8/1/03

REPORTING SUMMARY FOR 166716 METALS Water

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166716-009	MET07	08/11/03 13:55	1.0	+	+	+	+	+	
QC221602	MET07	08/11/03 13:17	1.0	+	+	+	+	+	
QC221603	MET07	08/11/03 13:21	1.0	+	+	+	+	+	
QC221604	MET07	08/11/03 13:24	1.0	+	+	+	+	+	
QC221605	MET07	08/11/03 13:48	1.0	+	+	+	+	+	
QC221606	MET07	08/11/03 13:52	1.0	+	+	+	+	+	
QC221607	MET07	08/11/03 13:44	5.0	+	+	+	+	+	

Curtis & Tompkins Laboratories

Sample Preparation Summary

07-AUG-2003 12:35

Batch Number : 83512
Date Extracted: 07-AUG-2003
Extracted by : Patricia V. Vergara
Prep Method : 3010

Analysis : N/A
Bg/roup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 03SS177
Spike #2 ID : 03SS178
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
166696-001		Polymatrix	Water	50	ml	50	1	1					AG	
166696-002		Polymatrix	Water	50	ml	50	1	1					AG	
166696-003		Polymatrix	Water	50	ml	50	1	1					AG	
166696-004		Polymatrix	Water	50	ml	50	1	1					AG	
166696-005		Polymatrix	Water	50	ml	50	1	1					AG	
166696-006		Polymatrix	Water	50	ml	50	1	1					AG	
166696-007		Polymatrix	Water	50	ml	50	1	1					AG	
166703-001		Shaw E&I	Water	50	ml	50	1	1					AG, AS, BE, CD, (more)	
166703-002		Shaw E&I	Water	50	ml	50	1	1					AG, AS, BE, CD, (more)	
166703-003		Shaw E&I	Water	50	ml	50	1	1					AG, AS, BE, CD, (more)	
166704-004		Tetra Tech EMI	Water	50	ml	50	1	1					CD, CR, NI, PB, ZN	mss
166716-009		Treadwell & Rollo	Water	50	ml	50	1	1					BA, CU, PB, SB, ZN	
166721-001		Bay Area Rapid Transit Dist.	Water	50	ml	50	1	1					T26/ICP	
166731-015		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166731-016		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166731-017		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166757-005		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166757-006		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166757-007		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
166757-008		SOMA Environmental Engineering	Water	50	ml	50	1	1					T26/ICP	
QC221602	BLANK		Water	50	ml	50	1	1					ICAP	
QC221603	BS		Water	50	ml	50	1	1					ICAP	
QC221604	BSD		Water	50	ml	50	1	1					ICAP	
QC221605	MS	of 166704-004	Water	50	ml	50	1	1					ICAP	
QC221606	MSD	of 166704-004	Water	50	ml	50	1	1					ICAP	
QC221607	SER	of 166704-004	Water	50	ml	50	1	1					ICAP	

Prep Chemist: Patricia Vergara

Reviewed By:

Date:

Relinquished By: Patricia Vergara

Received By:

Date:

H2O Digestion

341760

08/07/03

Batch# 83512

TEMP/M 30.0

SAMPLE ID	INITIAL (uL)	FINAL (uL)	FILTERED YES/NO	COMMENTS
A 166696-001	50.0	50	NO	SPICES
002				✓ 0355177 (6.5 uL)
003				✓ 0355178 ↓
004				
005				
006				
007				
F 166703-001				
002				
D 003				
A 166704-004 (155)				
166716-007				
D 166721-001				
A 166731-015				
016				
017				
D 166751-005				
006				
007				
008				
UB 02 221602				
✓ BS 221603				
✓ BS 221604				
✓ MS 6704-004				
✓ MS 6704-004				

REAGENTS

HNO3 JT BAKER# Y08024
14 HCl JT BAKER# Y12028/080003

Continued on Page

Read and Understood By

Petria Vargara

08/07/03

Signed

Date

47

mm

Signed

8/4/03

Date

Method Detection Limit Study for EPA 6010B / 200.7
Curtis & Tompkins Laboratories

1706/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17729
Study Date: 19-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82299
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209372	73245222092	165833-001	19-JUN-2003 16:25
2	tr209373	73245222093	165833-002	19-JUN-2003 16:29
3	tr209374	73245222094	165833-003	19-JUN-2003 16:32
4	tr209375	73245222095	165833-004	19-JUN-2003 16:36
5	tr209376	73245222096	165833-005	19-JUN-2003 16:39
6	tr209377	73245222097	165833-006	19-JUN-2003 16:42
7	tr209378	73245222098	165833-007	19-JUN-2003 16:46

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Aluminum	25.000000	23.850000	24.990000	21.860000	24.430000	19.500000	21.490000	23.580000	6.1	100	ug/L	u
Antimony	15.000000	24.300000	17.500000	14.900000	14.700000	14.700000	14.000000	13.900000	12	60	ug/L	u
Beryllium	0.500000	1.030000	1.050000	1.080000	1.040000	1.050000	1.090000	1.150000	0.13	2.0	ug/L	u
Cadmium	1.250000	1.070000	1.120000	1.110000	1.170000	1.040000	1.080000	1.150000	0.14	5.0	ug/L	u
Calcium	50.000000	44.140000	46.160000	42.340000	44.510000	41.220000	40.020000	41.600000	6.8	500	ug/L	u
Chromium	2.500000	2.350000	2.530000	2.510000	2.330000	2.250000	2.360000	2.320000	0.32	10	ug/L	u
Cobalt	5.000000	4.640000	4.520000	4.270000	4.280000	3.970000	4.080000	4.100000	0.76	20	ug/L	u
Copper	2.500000	2.130000	1.920000	1.810000	1.790000	1.950000	1.720000	1.910000	0.42	10	ug/L	u
Iron	25.000000	34.410000	24.410000	21.160000	20.370000	18.010000	19.890000	19.190000	18	100	ug/L	u
Magnesium	50.000000	45.150000	44.380000	44.890000	43.880000	42.230000	42.610000	42.100000	4.0	500	ug/L	Eu
Manganese	2.500000	2.220000	2.160000	2.090000	2.080000	2.070000	1.980000	1.990000	0.27	10	ug/L	u
Molybdenum	5.000000	4.760000	4.250000	3.330000	2.910000	3.070000	3.170000	2.740000	2.4	20	ug/L	u
Nickel	5.000000	4.370000	4.270000	4.040000	3.930000	4.070000	3.950000	4.060000	0.51	20	ug/L	u
Silver	1.250000	1.350000	1.160000	1.350000	0.991000	1.100000	1.100000	1.240000	0.43	5.0	ug/L	u
Vanadium	2.500000	2.500000	2.690000	2.550000	2.530000	2.260000	2.240000	2.210000	0.59	10	ug/L	u
Zinc	5.000000	5.970000	6.680000	4.810000	6.750000	5.220000	4.870000	6.510000	2.7	20	ug/L	u

Method Detection Limit Study for EPA 6010B / 200.7 ✓ 6/25/03
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17730
Study Date: 20-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82300
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209398	73246839015	165833-008	20-JUN-2003 12:09
2	tr209399	73246839016	165833-009	20-JUN-2003 12:12
3	tr209400	73246839017	165833-010	20-JUN-2003 12:15
4	tr209401	73246839018	165833-011	20-JUN-2003 12:19
5	tr209402	73246839019	165833-012	20-JUN-2003 12:22
6	tr209403	73246839020	165833-013	20-JUN-2003 12:26
7	tr209404	73246839021	165833-014	20-JUN-2003 12:29

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Barium	5.0000000	4.5700000	4.6600000	4.6100000	4.9600000	4.6300000	4.6800000	4.5900000	0.42	10	ug/L Eu

Method Detection Limit Study for EPA 6010B / 2a.7
Curtis & Tompkins Laboratories

✓ 6/25/03

Instrument: MET07
Matrix : Water
Partition : All

Study # : 17734
Study Date: 23-JUN-2003
Effective : 25-JUN-2003
Batchnum : 82302
Reviewer : HDD

Study consists of these runs:

#	Filename	Segment	Samplenum	Analyzed
1	tr209492	73250979049	165833-022	23-JUN-2003 11:18
2	tr209493	73250979050	165833-023	23-JUN-2003 11:24
3	tr209494	73250979051	165833-024	23-JUN-2003 11:28
4	tr209495	73250979052	165833-025	23-JUN-2003 11:36
5	tr209496	73250979053	165833-026	23-JUN-2003 11:40
6	tr209497	73250979054	165833-027	23-JUN-2003 11:48
7	tr209498	73250979055	165833-028	23-JUN-2003 11:52

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	units	Flags
Arsenic	15.000000	13.400000	12.500000	13.800000	13.300000	13.600000	11.200000	14.500000	3.3	5.0	ug/L	Bu
Lead	9.0000000	7.0200000	7.5900000	7.4400000	8.0400000	7.5500000	6.8900000	7.1200000	1.3	3.0	ug/L	u
Selenium	15.000000	10.500000	11.900000	12.700000	11.900000	13.700000	13.100000	12.400000	3.2	5.0	ug/L	Bu
Thallium	15.000000	14.700000	15.500000	14.500000	15.400000	15.600000	15.400000	15.200000	1.3	5.0	ug/L	Eu

Barium			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Batch#:	83521
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled	Analyzed
BAPSB11 [3]	SAMPLE	166716-001	60	0.45	dry	7%	08/01/03	08/11/03
BAPSB08R [6.5]	SAMPLE	166716-002	60	0.52	dry	11%	08/01/03	08/08/03
BAPSB08R [7.5]	SAMPLE	166716-003	39	0.53	dry	11%	08/01/03	08/08/03
LCPSB33 [1]	SAMPLE	166716-004	9.1	0.45	dry	1%	08/04/03	08/08/03
LCPSB33 [2]	SAMPLE	166716-005	11	0.50	dry	1%	08/04/03	08/08/03
DUP080403A	SAMPLE	166716-006	9.1	0.48	dry	1%	08/04/03	08/08/03
LCPSB31 [2]	SAMPLE	166716-007	9.7	0.49	dry	1%	08/04/03	08/08/03
LCPSB31 [1]	SAMPLE	166716-008	11	0.47	dry	1%	08/04/03	08/08/03
LCPSB06 [0.3]	SAMPLE	166716-010	21	0.49	dry	2%	08/04/03	08/08/03
LCPSB06 [1]	SAMPLE	166716-011	20	0.49	dry	2%	08/04/03	08/08/03
LCPSB07 [0.3]	SAMPLE	166716-012	32	0.49	dry	2%	08/04/03	08/08/03
LCPSB07 [1]	SAMPLE	166716-013	17	0.50	dry	2%	08/04/03	08/11/03
	BLANK	QC221638	ND	0.50	as received			08/11/03

Copper

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Batch#:	83521
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled	Analyzed
BAPSB11 [3]	SAMPLE	166716-001	6.0	0.45	dry	7%	08/01/03	08/11/03
BAPSB08R [6.5]	SAMPLE	166716-002	6.3	0.52	dry	11%	08/01/03	08/08/03
BAPSB08R [7.5]	SAMPLE	166716-003	5.8	0.53	dry	11%	08/01/03	08/08/03
LCPSB33 [1]	SAMPLE	166716-004	13	0.45	dry	1%	08/04/03	08/08/03
LCPSB33 [2]	SAMPLE	166716-005	28	0.50	dry	1%	08/04/03	08/08/03
DUP080403A	SAMPLE	166716-006	24	0.48	dry	1%	08/04/03	08/08/03
LCPSB31 [2]	SAMPLE	166716-007	3.2	0.49	dry	1%	08/04/03	08/08/03
LCPSB31 [1]	SAMPLE	166716-008	3.7	0.47	dry	1%	08/04/03	08/08/03
LCPSB06 [0.3]	SAMPLE	166716-010	5.0	0.49	dry	2%	08/04/03	08/08/03
LCPSB06 [1]	SAMPLE	166716-011	5.0	0.49	dry	2%	08/04/03	08/08/03
LCPSB07 [0.3]	SAMPLE	166716-012	7.9	0.49	dry	2%	08/04/03	08/08/03
LCPSB07 [1]	SAMPLE	166716-013	4.1	0.50	dry	2%	08/04/03	08/11/03
	BLANK	QC221638	ND	0.50	as received			08/11/03

ND= Not Detected

RL= Reporting Limit

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Lead			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	83521
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled	Analyzed
BAPSB11[3]	SAMPLE	166716-001	22	0.14	dry	7%	08/01/03	08/11/03
BAPSB08R[6.5]	SAMPLE	166716-002	2.6	0.16	dry	11%	08/01/03	08/08/03
BAPSB08R[7.5]	SAMPLE	166716-003	2.3	0.16	dry	11%	08/01/03	08/08/03
LCPSB33[1]	SAMPLE	166716-004	34	0.13	dry	1%	08/04/03	08/08/03
LCPSB33[2]	SAMPLE	166716-005	51	0.15	dry	1%	08/04/03	08/08/03
DUP080403A	SAMPLE	166716-006	60	0.14	dry	1%	08/04/03	08/08/03
LCPSB31[2]	SAMPLE	166716-007	6.9	0.15	dry	1%	08/04/03	08/08/03
LCPSB31[1]	SAMPLE	166716-008	7.2	0.14	dry	1%	08/04/03	08/08/03
LCPSB06[0.3]	SAMPLE	166716-010	16	0.15	dry	2%	08/04/03	08/08/03
LCPSB06[1]	SAMPLE	166716-011	10	0.15	dry	2%	08/04/03	08/08/03
LCPSB07[0.3]	SAMPLE	166716-012	13	0.15	dry	2%	08/04/03	08/08/03
LCPSB07[1]	SAMPLE	166716-013	22	0.15	dry	2%	08/04/03	08/11/03
	BLANK	QC221638	ND	0.15	as received			08/11/03

**Antimony**

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Batch#:	83521
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled	Analyzed
BAPSB11[3]	SAMPLE	166716-001	ND	2.7	dry	7%	08/01/03	08/11/03
BAPSB08R[6.5]	SAMPLE	166716-002	ND	3.1	dry	11%	08/01/03	08/08/03
BAPSB08R[7.5]	SAMPLE	166716-003	ND	3.2	dry	11%	08/01/03	08/08/03
LCPSB33[1]	SAMPLE	166716-004	ND	2.7	dry	1%	08/04/03	08/08/03
LCPSB33[2]	SAMPLE	166716-005	ND	3.0	dry	1%	08/04/03	08/08/03
DUP080403A	SAMPLE	166716-006	ND	2.9	dry	1%	08/04/03	08/08/03
LCPSB31[2]	SAMPLE	166716-007	ND	3.0	dry	1%	08/04/03	08/08/03
LCPSB31[1]	SAMPLE	166716-008	ND	2.8	dry	1%	08/04/03	08/08/03
LCPSB06[0.3]	SAMPLE	166716-010	ND	3.0	dry	2%	08/04/03	08/08/03
LCPSB06[1]	SAMPLE	166716-011	ND	3.0	dry	2%	08/04/03	08/08/03
LCPSB07[0.3]	SAMPLE	166716-012	ND	3.0	dry	2%	08/04/03	08/08/03
LCPSB07[1]	SAMPLE	166716-013	ND	3.0	dry	2%	08/04/03	08/11/03
	BLANK	QC221638	ND	3.0	as received			08/11/03

ND= Not Detected

RL= Reporting Limit

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**Zinc**

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Batch#:	83521
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Sampled	Analyzed
BAPSB11[3]	SAMPLE	166716-001	27	0.91	dry	7%	08/01/03	08/11/03
BAPSB08R[6.5]	SAMPLE	166716-002	21	1.0	dry	11%	08/01/03	08/08/03
BAPSB08R[7.5]	SAMPLE	166716-003	20	1.1	dry	11%	08/01/03	08/08/03
LCPSB33[1]	SAMPLE	166716-004	14	0.89	dry	1%	08/04/03	08/08/03
LCPSB33[2]	SAMPLE	166716-005	14	0.99	dry	1%	08/04/03	08/08/03
DUP080403A	SAMPLE	166716-006	14	0.96	dry	1%	08/04/03	08/08/03
LCPSB31[2]	SAMPLE	166716-007	16	0.99	dry	1%	08/04/03	08/08/03
LCPSB31[1]	SAMPLE	166716-008	17	0.94	dry	1%	08/04/03	08/08/03
LCPSB06[0.3]	SAMPLE	166716-010	23	0.99	dry	2%	08/04/03	08/08/03
LCPSB06[1]	SAMPLE	166716-011	19	0.99	dry	2%	08/04/03	08/08/03
LCPSB07[0.3]	SAMPLE	166716-012	24	0.99	dry	2%	08/04/03	08/08/03
LCPSB07[1]	SAMPLE	166716-013	18	1.0	dry	2%	08/04/03	08/11/03
	BLANK	QC221638	ND	1.0	as received			08/11/03

ND= Not Detected

RL= Reporting Limit

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Barium

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83521
Units:	mg/Kg	Prepared:	08/07/03
Basis:	as received	Analyzed:	08/11/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221639	100.0	90.00	90	75-125		
BSD	QC221640	100.0	90.50	91	75-125	1	30

Copper

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83521
Units:	mg/Kg	Prepared:	08/07/03
Basis:	as received	Analyzed:	08/11/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221639	12.50	11.25	90	75-125		
BSD	QC221640	12.50	11.25	90	75-125	0	30

Lead			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83521
Units:	mg/Kg	Prepared:	08/07/03
Basis:	as received	Analyzed:	08/11/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221639	100.0	86.00	86	75-125		
BSD	QC221640	100.0	86.00	86	75-125	0	30

Antimony

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83521
Units:	mg/Kg	Prepared:	08/07/03
Basis:	as received	Analyzed:	08/11/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221639	100.0	100.0	100	75-125		
BSD	QC221640	100.0	100.0	100	75-125	0	30

Zinc			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Matrix:	Soil	Batch#:	83521
Units:	mg/Kg	Prepared:	08/07/03
Basis:	as received	Analyzed:	08/11/03

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC221639	25.00	21.45	86	75-125		
BSD	QC221640	25.00	22.30	89	75-125	4	30

Barium

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Barium	Diln Fac:	1.000
Field ID:	BAPSB11[3]	Batch#:	83521
MSS Lab ID:	166716-001	Sampled:	08/01/03
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Basis:	dry	Analyzed:	08/11/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221641	59.89	96.44	167.3	111	75-125	7%		
MSD	QC221642		90.36	143.7	93	75-125	7%	11	30

Copper

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Copper	Diln Fac:	1.000
Field ID:	BAPSB11[3]	Batch#:	83521
MSS Lab ID:	166716-001	Sampled:	08/01/03
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Basis:	dry	Analyzed:	08/11/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221641	5.989	12.05	18.47	104	75-125	7%		
MSD	QC221642		11.29	17.08	98	75-125	7%	4	30

Lead

Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BAPSB11[3]	Batch#:	83521
MSS Lab ID:	166716-001	Sampled:	08/01/03
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Basis:	dry	Analyzed:	08/11/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221641	22.19	96.44	104.2	85	75-125	7%		
MSD	QC221642		90.36	109.8	97	75-125	7%	11	30

Antimony			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Antimony	Diln Fac:	1.000
Field ID:	BAPSB11[3]	Batch#:	83521
MSS Lab ID:	166716-001	Sampled:	08/01/03
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Basis:	dry	Analyzed:	08/11/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221641	0.6352	96.44	42.67	44 *	75-125	7%		
MSD	QC221642		90.36	35.19	38 *	75-125	7%	13	30

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Zinc			
Lab #:	166716	Location:	Presidio Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	BAPSB11[3]	Batch#:	83521
MSS Lab ID:	166716-001	Sampled:	08/01/03
Matrix:	Soil	Received:	08/05/03
Units:	mg/Kg	Prepared:	08/07/03
Basis:	dry	Analyzed:	08/11/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC221641	26.54	24.11	49.18	94	75-125	7%		
MSD	QC221642		22.59	45.63	85	75-125	7%	4	30

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 73321562055	Seqnum : 73321562058
Filename : tr213227	Filename : tr213231
IDF : 1.0	IDF : 5.0
PDF : 42.19409	PDF : 42.19409
Run type : MSS	Run type : SER
Samplenum: 166716-001	Samplenum: QC221643
Matrix : Soil	Matrix : Soil
Batchnum : 83521	Batchnum : 83521
Inj : 11-AUG-2003 12:06	Inj : 11-AUG-2003 12:23
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	2.53	ND	12.7	--	10		u
Arsenic	1.54	0.211	1.50	1.05	--	10		u
Barium	55.7	0.422	55.9	2.11	0	10		u
Beryllium	0.185	0.0844	ND	0.422	--	10		u
Cadmium	1.20	0.211	1.21	1.05	--	10		u
Calcium	2320	21.1	2420	105	4	10		u
Chromium	42.6	0.422	44.1	2.11	3	10		u
Cobalt	7.34	0.844	7.72	4.22	--	10		u
Copper	5.57	0.422	5.17	2.11	7	10		u
Iron	*** usable MSS data not found ***							
Lead	20.6	0.127	22.4	0.633	8	10		u
Magnesium	1930	21.1	2020	105	5	10		u
Manganese	235	0.422	241	2.11	2	10		u
Molybdenum	ND	0.844	ND	4.22	--	10		u
Nickel	36.0	0.844	38.0	4.22	6	10		u
Selenium	ND	0.211	ND	1.05	--	10		u
Silver	ND	0.211	ND	1.05	--	10		u
Thallium	ND	0.211	1.15	1.05	--	10		u
Vanadium	23.9	0.422	24.3	2.11	2	10		u
Zinc	24.7	0.844	26.2	4.22	6	10		u
Titanium	302	0.422	302	2.11	0	10		u

Method: 6010B Standard: blank
 Run Time: 08/08/03 06:02:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.001	-.003	.001	-.026	.000	.002
SDev	.000	.000	.001	.000	.001	.000	.000
%RSD	29.5	58.2	27.1	8.32	4.88	38.6	4.42
#1	-.001	-.000	-.004	.001	-.027	.000	.002
#2	-.002	-.001	-.003	.001	-.025	.000	.002
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	-.026	.013	-.000	.002	-.002	-.007
SDev	.000	.000	.004	.005	.001	.001	.000
%RSD	9.43	1.32	31.1	2040.	23.6	66.7	4.65
#1	-.001	-.025	.016	.003	.003	-.001	-.007
#2	-.001	-.026	.010	-.004	.002	-.003	-.007
Elem	Se196A	Ag3280	Tl1908	V 2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.001	.001	.027	.1801	.0001
SDev	.001	.001	.000	.000	.000	.0003	.0001
%RSD	49.4	36.9	6.73	20.2	.000	.1571	47.14
#1	.002	-.001	-.001	.001	.027	.1799	.0001
#2	.004	-.002	-.001	.001	.027	.1803	.0001
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0024	.0014	.002	.328			
SDev	.0002	.0002	.000	.001			
%RSD	9.959	17.25	10.9	.417			
#1	-.0025	.0012	.002	.327			
#2	-.0022	.0015	.002	.329			

Method: 6010B Standard: cst hi
 Run Time: 08/08/03 06:08:36

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	2.00	1.32	.488	70.1	7.48	2.72	.518
SDev	.09	.04	.002	.0	.01	.01	.000
%RSD	4.41	3.06	.357	.016	.134	.293	.064
#1	1.94	1.30	.487	70.1	7.49	2.72	.517
#2	2.07	1.35	.490	70.1	7.47	2.71	.518
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.55	1.34	1.66	1.84	3.09	4.29	.527
SDev	.00	.00	.00	.00	.01	.00	.005
%RSD	.015	.059	.187	.141	.275	.020	.966
#1	1.55	1.34	1.66	1.85	3.08	4.29	.523
#2	1.55	1.34	1.66	1.84	3.09	4.29	.531
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.686	.778	.324	2.09	.363	.4213	.5850
SDev	.003	.002	.004	.00	.000	.0001	.0006
%RSD	.433	.303	1.28	.108	.052	.0112	.0967
#1	.684	.780	.327	2.09	.363	.4213	.5854
#2	.688	.776	.321	2.09	.363	.4213	.5846
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.2545	.4081	1.96	21.4			
SDev	.0002	.0005	.00	.0			
%RSD	.0926	.1155	.101	.023			
#1	.2543	.4084	1.96	21.4			
#2	.2547	.4077	1.96	21.4			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	496.372	.794196	08/08/03 06:08:36
Sb206A	206.832	Multiple	Standards	740.538	.419638	08/08/03 06:08:36
As1890	189.042	Multiple	Standards	1018.13	3.19016	08/08/03 06:08:36
Ba4934	493.409	Multiple	Standards	14.2571	-.016158	08/08/03 06:08:36
Be3130	313.042	Multiple	Standards	12.8724	.335969	08/08/03 06:08:36
Cd2265	226.502	Multiple	Standards	36.7457	-.013473	08/08/03 06:08:36
Cr2677	267.716	Multiple	Standards	388.328	-.828432	08/08/03 06:08:36
Co2286	228.616	Multiple	Standards	322.089	.322089	08/08/03 06:08:36
Cu3247	324.754	Multiple	Standards	146.316	3.73919	08/08/03 06:08:36
Pb2203	220.351	Multiple	Standards	303.716	-3.99893	08/08/03 06:08:36
Pb220A	220.352	Multiple	Standards	268.822	.062725	08/08/03 06:08:36
Mo2020	202.030	Multiple	Standards	324.072	-.777773	08/08/03 06:08:36
Ni2316	231.604	Multiple	Standards	116.434	.205700	08/08/03 06:08:36
Se1960	196.021	Multiple	Standards	936.616	6.64997	08/08/03 06:08:36
Se196A	196.022	Multiple	Standards	731.583	-2.02405	08/08/03 06:08:36
Ag3280	328.068	Multiple	Standards	128.282	.196699	08/08/03 06:08:36
Tl1908	190.864	Multiple	Standards	1543.95	2.16153	08/08/03 06:08:36
V_2924	292.402	Multiple	Standards	238.944	-.167261	08/08/03 06:08:36
Zn2138	213.856	Multiple	Standards	308.775	-8.43985	08/08/03 06:08:36
Al3082	308.215	Multiple	Standards	4198.80	-756.064	08/08/03 06:08:36
Ca3179	317.933	Multiple	Standards	3419.43	-.341943	08/08/03 06:08:36
Fe2714	271.441	Multiple	Standards	4059.78	9.60815	08/08/03 06:08:36
Mg2790	279.079	Multiple	Standards	4916.29	-6.71893	08/08/03 06:08:36
Mn2576	257.610	Multiple	Standards	50.9935	-.110486	08/08/03 06:08:36
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/08/03 06:08:36
Ti3349	334.941	Multiple	Standards	47.4928	-15.5729	08/08/03 06:08:36

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180001

Run Name :
Filename : tr213066

Injected : 08-AUG-2003 06:20
Caltype :

Standards: 03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	999.9000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	499.0000	ug/L	0	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	99.30000	ug/L	-1	5	
Cadmium	100.0000	99.40000	ug/L	-1	5	
Calcium	2000.000	1989.000	ug/L	-1	5	
Chromium	200.0000	199.0000	ug/L	-1	5	
Cobalt	500.0000	498.0000	ug/L	0	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	997.9000	ug/L	0	5	
Lead	500.0000	497.0000	ug/L	-1	5	
Magnesium	2000.000	1992.000	ug/L	0	5	
Manganese	100.0000	99.60000	ug/L	0	5	
Molybdenum	1000.000	999.0000	ug/L	0	5	
Nickel	500.0000	498.0000	ug/L	0	5	
Selenium	500.0000	500.0000	ug/L	0	5	
Silver	100.0000	99.10000	ug/L	-1	5	
Thallium	500.0000	491.0000	ug/L	-2	5	
Titanium	1000.000	999.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	99.10000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180002

Run Name :
Filename : tr213067

Injected : 08-AUG-2003 06:29
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	490.3000	ug/L	-2		10	
Antimony	500.0000	546.0000	ug/L	9		10	
Arsenic	250.0000	255.0000	ug/L	2		10	
Barium	500.0000	494.0000	ug/L	-1		10	
Beryllium	50.00000	51.50000	ug/L	3		10	
Cadmium	50.00000	49.70000	ug/L	-1		10	
Calcium	1000.000	1027.000	ug/L	3		10	
Chromium	100.0000	103.0000	ug/L	3		10	
Cobalt	250.0000	251.0000	ug/L	0		10	
Copper	100.0000	102.0000	ug/L	2		10	
Iron	500.0000	513.3000	ug/L	3		10	
Lead	250.0000	252.0000	ug/L	1		10	
Magnesium	1000.000	1025.000	ug/L	3		10	
Manganese	50.00000	50.60000	ug/L	1		10	
Molybdenum	500.0000	513.0000	ug/L	3		10	
Nickel	250.0000	255.0000	ug/L	2		10	
Selenium	250.0000	242.0000	ug/L	-3		10	
Silver	50.00000	50.30000	ug/L	1		10	
Thallium	250.0000	243.0000	ug/L	-3		10	
Titanium	500.0000	514.0000	ug/L	3		10	
Vanadium	250.0000	253.0000	ug/L	1		10	
Zinc	50.00000	50.20000	ug/L	0		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180004

Run Name :
Filename : tr213069

Injected : 08-AUG-2003 06:44
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	94.07000	ug/L	-6	50	
Antimony	60.00000	87.90000	ug/L	47	50	
Arsenic	5.000000	3.960000	ug/L	-21	50	
Barium	10.00000	11.00000	ug/L	10	50	
Beryllium	2.000000	1.870000	ug/L	-7	50	
Cadmium	5.000000	4.960000	ug/L	-1	50	
Chromium	10.00000	9.610000	ug/L	-4	50	
Cobalt	20.00000	18.90000	ug/L	-6	50	
Copper	10.00000	9.980000	ug/L	0	50	
Iron	100.0000	105.8000	ug/L	6	50	
Lead	3.000000	2.030000	ug/L	-32	50	
Manganese	10.00000	9.830000	ug/L	-2	50	
Molybdenum	20.00000	20.20000	ug/L	1	50	
Nickel	20.00000	21.70000	ug/L	9	50	
Selenium	5.000000	6.590000	ug/L	32	50	
Silver	5.000000	4.550000	ug/L	-9	50	
Thallium	5.000000	3.330000	ug/L	-33	50	
Vanadium	10.00000	10.00000	ug/L	0	50	
Zinc	20.00000	19.90000	ug/L	-1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180014

Run Name :
Filename : tr213079

Injected : 08-AUG-2003 08:16
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	520.2000	ug/L	4	10	
Antimony		500.0000	510.0000	ug/L	2	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	501.0000	ug/L	0	10	
Beryllium		50.00000	50.30000	ug/L	1	10	
Cadmium		50.00000	47.80000	ug/L	-4	10	
Calcium		1000.000	1100.000	ug/L	10	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	105.0000	ug/L	5	10	
Iron		500.0000	544.6000	ug/L	9	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1068.000	ug/L	7	10	
Manganese		50.00000	53.60000	ug/L	7	10	
Molybdenum		500.0000	517.0000	ug/L	3	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	243.0000	ug/L	-3	10	
Silver		50.00000	52.50000	ug/L	5	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	523.0000	ug/L	5	10	
Vanadium		250.0000	257.0000	ug/L	3	10	
Zinc		50.00000	50.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180026

Run Name :
Filename : tr213091

Injected : 08-AUG-2003 09:31
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	718.8000	ug/L	-4	10	
Antimony		750.0000	682.0000	ug/L	-9	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	71.60000	ug/L	-5	10	
Calcium		1500.000	1470.000	ug/L	-2	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	721.9000	ug/L	-4	10	
Lead		375.0000	350.0000	ug/L	-7	10	
Magnesium		1500.000	1484.000	ug/L	-1	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	364.0000	ug/L	-3	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	743.0000	ug/L	-1	10	
Vanadium		375.0000	365.0000	ug/L	-3	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180038

Run Name :
Filename : tr213103

Injected : 08-AUG-2003 10:32
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	752.9000	ug/L	0	10	
Antimony		750.0000	659.0000	ug/L	-12	10	1 ***
Arsenic		375.0000	380.0000	ug/L	1	10	
Barium		750.0000	732.0000	ug/L	-2	10	
Beryllium		75.00000	76.00000	ug/L	1	10	
Cadmium		75.00000	73.60000	ug/L	-2	10	
Calcium		1500.000	1506.000	ug/L	0	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	760.1000	ug/L	1	10	
Lead		375.0000	371.0000	ug/L	-1	10	
Magnesium		1500.000	1510.000	ug/L	1	10	
Manganese		75.00000	74.00000	ug/L	-1	10	
Molybdenum		750.0000	737.0000	ug/L	-2	10	
Nickel		375.0000	376.0000	ug/L	0	10	
Selenium		375.0000	373.0000	ug/L	-1	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	74.80000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180050

Run Name :
Filename : tr213115

Injected : 08-AUG-2003 11:28
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	480.3000	ug/L	-4	10	
Antimony		500.0000	460.0000	ug/L	-8	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	492.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	47.60000	ug/L	-5	10	
Calcium		1000.000	973.4000	ug/L	-3	10	
Chromium		100.0000	98.90000	ug/L	-1	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	497.5000	ug/L	-1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	984.2000	ug/L	-2	10	
Manganese		50.00000	48.40000	ug/L	-3	10	
Molybdenum		500.0000	493.0000	ug/L	-1	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	498.0000	ug/L	0	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	48.60000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180061

Run Name :
Filename : tr213126

Injected : 08-AUG-2003 12:10
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	754.5000	ug/L	1	10	
Antimony		750.0000	651.0000	ug/L	-13	10	1 ***
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	729.0000	ug/L	-3	10	
Beryllium		75.00000	73.90000	ug/L	-1	10	
Cadmium		75.00000	71.40000	ug/L	-5	10	
Calcium		1500.000	1463.000	ug/L	-2	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	359.0000	ug/L	-4	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	787.4000	ug/L	5	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1544.000	ug/L	3	10	
Manganese		75.00000	72.90000	ug/L	-3	10	
Molybdenum		750.0000	731.0000	ug/L	-3	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	73.50000	ug/L	-2	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	738.0000	ug/L	-2	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	72.80000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180068

Run Name :
Filename : tr213133

Injected : 08-AUG-2003 12:41
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	536.2000	ug/L	7	10	
Antimony		500.0000	481.0000	ug/L	-4	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	48.70000	ug/L	-3	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	544.8000	ug/L	9	10	
Lead		250.0000	256.0000	ug/L	2	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	50.30000	ug/L	1	10	
Molybdenum		500.0000	507.0000	ug/L	1	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	242.0000	ug/L	-3	10	
Silver		50.00000	50.50000	ug/L	1	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180081

Run Name :
Filename : tr213146

Injected : 08-AUG-2003 13:41
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.0000	ug/L	3	10	
Antimony		750.0000	690.0000	ug/L	-8	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	730.0000	ug/L	-3	10	
Beryllium		75.00000	75.50000	ug/L	1	10	
Cadmium		75.00000	72.40000	ug/L	-3	10	
Calcium		1500.000	1518.000	ug/L	1	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	746.4000	ug/L	0	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1520.000	ug/L	1	10	
Manganese		75.00000	73.30000	ug/L	-2	10	
Molybdenum		750.0000	751.0000	ug/L	0	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	75.40000	ug/L	1	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180091

Run Name :
Filename : tr213156

Injected : 08-AUG-2003 14:54
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.9000	ug/L	-1	10	
Antimony		750.0000	699.0000	ug/L	-7	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	724.0000	ug/L	-3	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	73.10000	ug/L	-3	10	
Calcium		1500.000	1481.000	ug/L	-1	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	732.6000	ug/L	-2	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1498.000	ug/L	0	10	
Manganese		75.00000	72.60000	ug/L	-3	10	
Molybdenum		750.0000	764.0000	ug/L	2	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	371.0000	ug/L	-1	10	
Silver		75.00000	75.00000	ug/L	0	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	745.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	73.50000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180103

Run Name :
Filename : tr213168

Injected : 08-AUG-2003 15:56
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	696.9000	ug/L	-7	10	
Antimony		750.0000	703.0000	ug/L	-6	10	
Arsenic		375.0000	363.0000	ug/L	-3	10	
Barium		750.0000	723.0000	ug/L	-4	10	
Beryllium		75.00000	72.30000	ug/L	-4	10	
Cadmium		75.00000	69.50000	ug/L	-7	10	
Calcium		1500.000	1399.000	ug/L	-7	10	
Chromium		150.0000	142.0000	ug/L	-5	10	
Cobalt		375.0000	352.0000	ug/L	-6	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	703.0000	ug/L	-6	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1415.000	ug/L	-6	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	739.0000	ug/L	-1	10	
Nickel		375.0000	358.0000	ug/L	-5	10	
Selenium		375.0000	364.0000	ug/L	-3	10	
Silver		75.00000	71.90000	ug/L	-4	10	
Thallium		375.0000	352.0000	ug/L	-6	10	
Titanium		750.0000	732.0000	ug/L	-2	10	
Vanadium		375.0000	354.0000	ug/L	-6	10	
Zinc		75.00000	70.80000	ug/L	-6	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180003
Filename: tr213068

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 08-AUG-2003 06:40

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[51.200]	60.00000	ug/L	<	RL
Arsenic	[0.7780]	5.000000	ug/L	<	RL
Barium	[0.1730]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.0620]	5.000000	ug/L	<	RL
Calcium	[1.9390]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	[0.0410]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[2.2940]	500.0000	ug/L	<	RL
Manganese	[0.0490]	10.00000	ug/L	<	RL
Molybdenum	[4.2800]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[0.5740]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.3600]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[0.2080]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180015
Filename: tr213080

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 08:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[14.900]	60.00000	ug/L	<RL	
Arsenic	[0.4340]	5.000000	ug/L	<RL	
Barium	[0.0710]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[3.6500]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.4420]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[2.4580]	500.0000	ug/L	<RL	
Manganese	[0.0480]	10.00000	ug/L	<RL	
Molybdenum	[2.3500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[3.8900]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.2700]	5.000000	ug/L	<RL	
Titanium	[0.6190]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.1040]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180027
Filename: tr213092

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 09:40

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[1.8350]	100.0000	ug/L	<RL		
Antimony	[14.100]	60.00000	ug/L	<RL		
Arsenic	[1.3800]	5.000000	ug/L	<RL		
Barium	[0.1460]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.0220]	5.000000	ug/L	<RL		
Calcium	[2.8240]	500.0000	ug/L	<RL		
Chromium	[0.3910]	10.00000	ug/L	<RL		
Cobalt	[0.0370]	10.00000	ug/L	<RL		
Copper	[0.4220]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.0270]	10.00000	ug/L	<RL		
Molybdenum	[1.8800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.3100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.8850]	5.000000	ug/L	<RL		
Titanium	[3.3800]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.6400]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180039
Filename: tr213104

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 10:39

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[9.2950]	100.0000	ug/L	<	RL
Antimony	[3.6900]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1500]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[5.4730]	500.0000	ug/L	<	RL
Chromium	[0.3170]	10.00000	ug/L	<	RL
Cobalt	[0.0650]	10.00000	ug/L	<	RL
Copper	[0.2980]	10.00000	ug/L	<	RL
Iron	[2.0860]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	[0.0540]	10.00000	ug/L	<	RL
Molybdenum	[1.1900]	20.00000	ug/L	<	RL
Nickel	[0.3190]	20.00000	ug/L	<	RL
Selenium	[0.9560]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[0.0990]	5.000000	ug/L	<	RL
Titanium	[3.5200]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.3300]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180051
Filename: tr213116

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 11:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[0.6903]	100.0000	ug/L	<RL		
Antimony	[7.0300]	60.00000	ug/L	<RL		
Arsenic	[0.7570]	5.000000	ug/L	<RL		
Barium	[0.1550]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[4.6800]	500.0000	ug/L	<RL		
Chromium	[0.1270]	10.00000	ug/L	<RL		
Cobalt	[0.0560]	10.00000	ug/L	<RL		
Copper	[0.5240]	10.00000	ug/L	<RL		
Iron	[5.1750]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[3.3080]	500.0000	ug/L	<RL		
Manganese	[0.0910]	10.00000	ug/L	<RL		
Molybdenum	[1.5900]	20.00000	ug/L	<RL		
Nickel	[0.0900]	20.00000	ug/L	<RL		
Selenium	[0.8570]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.6600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.9860]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180062
Filename: tr213127

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 12:16

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[15.140]	100.0000	ug/L	<RL		
Antimony	[8.9400]	60.00000	ug/L	<RL		
Arsenic	[0.1300]	5.000000	ug/L	<RL		
Barium	[0.2270]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[6.4460]	500.0000	ug/L	<RL		
Chromium	[0.5810]	10.00000	ug/L	<RL		
Cobalt	[0.3740]	10.00000	ug/L	<RL		
Copper	[0.3910]	10.00000	ug/L	<RL		
Iron	[11.430]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[14.750]	500.0000	ug/L	<RL		
Manganese	[0.2490]	10.00000	ug/L	<RL		
Molybdenum	[3.1000]	20.00000	ug/L	<RL		
Nickel	[0.2870]	20.00000	ug/L	<RL		
Selenium	[0.4120]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[0.5400]	5.000000	ug/L	<RL		
Titanium	[4.4200]	10.00000	ug/L	<RL		
Vanadium	[0.0650]	10.00000	ug/L	<RL		
Zinc	[1.7600]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180069
Filename: tr213134

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 12:46

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[12.760]	100.0000	ug/L	<RL		
Antimony	[7.7700]	60.00000	ug/L	<RL		
Arsenic	[0.6920]	5.000000	ug/L	<RL		
Barium	[0.0190]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[6.5370]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[10.400]	100.0000	ug/L	<RL		
Lead	[1.4700]	3.000000	ug/L	<RL		
Magnesium	[4.6860]	500.0000	ug/L	<RL		
Manganese	[0.2110]	10.00000	ug/L	<RL		
Molybdenum	[0.7980]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[2.0100]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	[1.4300]	5.000000	ug/L	<RL		
Titanium	[3.6700]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.5700]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180082
Filename: tr213147

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 13:46

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[18.470]	100.0000	ug/L	<RL	
Antimony	[8.0300]	60.00000	ug/L	<RL	
Arsenic	[0.8550]	5.000000	ug/L	<RL	
Barium	[0.2350]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	[0.0850]	5.000000	ug/L	<RL	
Calcium	[10.240]	500.0000	ug/L	<RL	
Chromium	[0.5600]	10.00000	ug/L	<RL	
Cobalt	[0.2710]	10.00000	ug/L	<RL	
Copper	[0.6070]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[0.1480]	3.000000	ug/L	<RL	
Magnesium	[5.9250]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[4.5000]	20.00000	ug/L	<RL	
Nickel	[0.2040]	20.00000	ug/L	<RL	
Selenium	[0.1020]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[3.0000]	5.000000	ug/L	<RL	
Titanium	[2.7800]	10.00000	ug/L	<RL	
Vanadium	[0.0410]	10.00000	ug/L	<RL	
Zinc	[0.9550]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180092
Filename: tr213157

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 15:04

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[3.5320]	100.0000	ug/L	<	RL
Antimony	[27.600]	60.00000	ug/L	<	RL
Arsenic	[2.3600]	5.000000	ug/L	<	RL
Barium	[0.2030]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	[0.0940]	5.000000	ug/L	<	RL
Calcium	[7.7490]	500.0000	ug/L	<	RL
Chromium	[0.6020]	10.00000	ug/L	<	RL
Cobalt	[0.3950]	10.00000	ug/L	<	RL
Copper	[0.5270]	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.3500]	3.000000	ug/L	<	RL
Magnesium	[2.2830]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[3.9800]	20.00000	ug/L	<	RL
Nickel	[0.4440]	20.00000	ug/L	<	RL
Selenium	[1.0100]	5.000000	ug/L	<	RL
Silver	[0.7990]	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[2.2900]	10.00000	ug/L	<	RL
Vanadium	[0.1800]	10.00000	ug/L	<	RL
Zinc	[0.6600]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73317180104
Filename: tr213169

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 08-AUG-2003 16:02

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[11.270]	100.0000	ug/L	<RL		
Antimony	[16.100]	60.00000	ug/L	<RL		
Arsenic	[0.4970]	5.000000	ug/L	<RL		
Barium	[0.1970]	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	[0.1090]	5.000000	ug/L	<RL		
Calcium	[4.7710]	500.0000	ug/L	<RL		
Chromium	[0.5490]	10.00000	ug/L	<RL		
Cobalt	[0.5350]	10.00000	ug/L	<RL		
Copper	[0.4990]	10.00000	ug/L	<RL		
Iron	[0.8056]	100.0000	ug/L	<RL		
Lead	[0.3000]	3.000000	ug/L	<RL		
Magnesium	[0.9412]	500.0000	ug/L	<RL		
Manganese	[0.0940]	10.00000	ug/L	<RL		
Molybdenum	[4.2200]	20.00000	ug/L	<RL		
Nickel	[0.3730]	20.00000	ug/L	<RL		
Selenium	[0.7250]	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.7200]	10.00000	ug/L	<RL		
Vanadium	[0.1830]	10.00000	ug/L	<RL		
Zinc	[0.6070]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180005

Run Name :
Filename : tr213070

Injected : 08-AUG-2003 07:19
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	478800.0	ug/L	-4			
Antimony	500.0000	486.0000	ug/L	-3	20		
Arsenic	500.0000	481.0000	ug/L	-4	20		
Barium	500.0000	451.0000	ug/L	-10	20		
Beryllium	500.0000	405.0000	ug/L	-19	20		
Cadmium	1000.000	785.0000	ug/L	-22	20	#	***
Calcium	500000.0	384200.0	ug/L	-23			
Chromium	500.0000	402.0000	ug/L	-20	20		
Cobalt	500.0000	397.0000	ug/L	-21	20	#	***
Copper	500.0000	486.0000	ug/L	-3	20		
Iron	200000.0	169400.0	ug/L	-15			
Lead	1000.000	914.0000	ug/L	-9	20		
Magnesium	500000.0	467500.0	ug/L	-7			
Manganese	500.0000	441.0000	ug/L	-12	20		
Molybdenum	500.0000	445.0000	ug/L	-11	20		
Nickel	1000.000	900.0000	ug/L	-10	20		
Selenium	500.0000	452.0000	ug/L	-10	20		
Silver	1000.000	662.0000	ug/L	-34	20	#	***
Thallium	500.0000	428.0000	ug/L	-14	20		
Titanium	20000.00	1800.000	ug/L	-91			
Vanadium	500.0000	439.0000	ug/L	-12	20		
Zinc	1000.000	888.0000	ug/L	-11	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180080

Run Name :
Filename : tr213145

Injected : 08-AUG-2003 13:34
Caltpe :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	455200.0	ug/L	-9		
Antimony	500.0000	429.0000	ug/L	-14	20	
Arsenic	500.0000	477.0000	ug/L	-5	20	
Barium	500.0000	445.0000	ug/L	-11	20	
Beryllium	500.0000	429.0000	ug/L	-14	20	
Cadmium	1000.000	811.0000	ug/L	-19	20	
Calcium	500000.0	367400.0	ug/L	-27		
Chromium	500.0000	411.0000	ug/L	-18	20	
Cobalt	500.0000	404.0000	ug/L	-19	20	
Copper	500.0000	476.0000	ug/L	-5	20	
Iron	200000.0	160900.0	ug/L	-20		
Lead	1000.000	881.0000	ug/L	-12	20	
Magnesium	500000.0	450500.0	ug/L	-10		
Manganese	500.0000	420.0000	ug/L	-16	20	
Molybdenum	500.0000	422.0000	ug/L	-16	20	
Nickel	1000.000	875.0000	ug/L	-13	20	
Selenium	500.0000	459.0000	ug/L	-8	20	
Silver	1000.000	958.0000	ug/L	-4	20	
Thallium	500.0000	414.0000	ug/L	-17	20	
Titanium	20000.00	1770.000	ug/L	-91		
Vanadium	500.0000	431.0000	ug/L	-14	20	
Zinc	1000.000	872.0000	ug/L	-13	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180090

Run Name :
Filename : tr213155

Injected : 08-AUG-2003 14:46
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	420800.0	ug/L	-16		
Antimony	500.0000	455.0000	ug/L	-9	20	
Arsenic	500.0000	468.0000	ug/L	-6	20	
Barium	500.0000	481.0000	ug/L	-4	20	
Beryllium	500.0000	452.0000	ug/L	-10	20	
Cadmium	1000.000	863.0000	ug/L	-14	20	
Calcium	500000.0	343100.0	ug/L	-31		
Chromium	500.0000	434.0000	ug/L	-13	20	
Cobalt	500.0000	430.0000	ug/L	-14	20	
Copper	500.0000	515.0000	ug/L	3	20	
Iron	200000.0	151000.0	ug/L	-25		
Lead	1000.000	933.0000	ug/L	-7	20	
Magnesium	500000.0	423900.0	ug/L	-15		
Manganese	500.0000	443.0000	ug/L	-11	20	
Molybdenum	500.0000	428.0000	ug/L	-14	20	
Nickel	1000.000	918.0000	ug/L	-8	20	
Selenium	500.0000	449.0000	ug/L	-10	20	
Silver	1000.000	1120.000	ug/L	12	20	
Thallium	500.0000	400.0000	ug/L	-20	20	
Titanium	20000.00	1740.000	ug/L	-91		
Vanadium	500.0000	456.0000	ug/L	-9	20	
Zinc	1000.000	929.0000	ug/L	-7	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73317180105

Run Name :
Filename : tr213170

Injected : 08-AUG-2003 16:13
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	424700.0	ug/L	-15			
Antimony	500.0000	490.0000	ug/L	-2		20	
Arsenic	500.0000	480.0000	ug/L	-4		20	
Barium	500.0000	444.0000	ug/L	-11		20	
Beryllium	500.0000	426.0000	ug/L	-15		20	
Cadmium	1000.000	817.0000	ug/L	-18		20	
Calcium	500000.0	353200.0	ug/L	-29			
Chromium	500.0000	406.0000	ug/L	-19		20	
Cobalt	500.0000	402.0000	ug/L	-20		20	
Copper	500.0000	473.0000	ug/L	-5		20	
Iron	200000.0	155300.0	ug/L	-22			
Lead	1000.000	886.0000	ug/L	-11		20	
Magnesium	500000.0	437200.0	ug/L	-13			
Manganese	500.0000	415.0000	ug/L	-17		20	
Molybdenum	500.0000	441.0000	ug/L	-12		20	
Nickel	1000.000	870.0000	ug/L	-13		20	
Selenium	500.0000	464.0000	ug/L	-7		20	
Silver	1000.000	957.0000	ug/L	-4		20	
Thallium	500.0000	417.0000	ug/L	-17		20	
Titanium	20000.00	1770.000	ug/L	-91			
Vanadium	500.0000	426.0000	ug/L	-15		20	
Zinc	1000.000	874.0000	ug/L	-13		20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73317180 Instrument: MET07 TJA Trace ICP Begun: 08-AUG-2003

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Std's Used	>LR
001	tr213066 CS		08-AUG-2003 06:20	1.0	1.0		1	
002	tr213067 ICV		08-AUG-2003 06:29	1.0	1.0		2	
003	tr213068 ICB		08-AUG-2003 06:40	1.0	1.0			
004	tr213069 CRI		08-AUG-2003 06:44	1.0	1.0		3	
005	tr213070 ICSAB		08-AUG-2003 07:19	1.0	1.0	3	4	4:AL=478800
006	tr213071 BLANK	QC221675	83532 Water	07:25	1.0	3		
007	tr213072 BS	QC221676	83532 Water	07:30	1.0			
008	tr213073 BLANK	QC221669	83531 Soil	07:44	1.0	3		
009	tr213074 BSD	QC221677	83532 Water	07:50	1.0	3		
010	tr213075 MSS	166803-001	83532 Water	07:57	1.0	3		
011	tr213076 MS	QC221678	83532 Water	08:02	1.0			
012	tr213077 MSD	QC221679	83532 Water	08:06	1.0			
013	tr213078 SAMPLE	166803-007	83532 Water	08:11	1.0			
014	tr213079 CCV		08-AUG-2003 08:16	1.0	1.0		5	
015	tr213080 CCB		08-AUG-2003 08:20	1.0	1.0			
016	tr213081 SAMPLE	166804-001	83532 Water	08:24	1.0			
017	tr213082 SAMPLE	166804-024	83532 Water	08:28	1.0			
018	tr213083 BS	QC221670	83531 Soil	08:32	1.0	3		
019	tr213084 BSD	QC221671	83531 Soil	08:36	1.0	3		
020	tr213085 MSS	166804-002	83531 Soil	08:42	1.0	5		2:FE=162800
021	tr213086 SER	QC221674	83531 Soil	08:48	5.0			
022	tr213087 MS	QC221672	83531 Soil	08:51	1.0			3:FE=186600
023	tr213088 MSD	QC221673	83531 Soil	08:55	1.0			4:FE=248400
024	tr213089 SAMPLE	166804-003	83531 Soil	09:00	1.0			3:FE=216900
025	tr213090 SAMPLE	166804-004	83531 Soil	09:04	1.0			3:FE=190400
026	tr213091 CCV		08-AUG-2003 09:31	1.0	1.0		6	
027	tr213092 CCB		08-AUG-2003 09:40	1.0	1.0			
028	tr213093 SAMPLE	166804-005	83531 Soil	09:45	1.0			2:FE=190600
029	tr213094 SAMPLE	166804-006	83531 Soil	09:48	1.0			1:FE=160300
030	tr213095 SAMPLE	166804-007	83531 Soil	09:52	1.0			3:FE=179800
031	tr213096 SAMPLE	166804-008	83531 Soil	09:56	1.0			2:FE=187600
032	tr213097 SAMPLE	166804-009	83531 Soil	10:00	1.0			1:FE=149400
			08-AUG-2003 10:00	1.0	45.24887			

Std's used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: Melvin Date: 8/8/03

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 08-AUG-2003

Sequence: 73317180 Instrument: MET07 TJA Trace ICP

#	Filename Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr213098 SAMPLE	166804-010	83531 Soil	08-AUG-2003 10:04 1.0	44.44444			3:FE=177500
034	tr213099 SAMPLE	166804-011	83531 Soil	08-AUG-2003 10:08 1.0	48.07692			1:FE=138700
035	tr213100 SAMPLE	166804-012	83531 Soil	08-AUG-2003 10:12 1.0	42.91845			1:FE=153900
036	tr213101 SAMPLE	166804-013	83531 Soil	08-AUG-2003 10:18 1.0	41.32231			2:FE=169000
037	tr213102 SAMPLE	166804-014	83531 Soil	08-AUG-2003 10:22 1.0	39.21569			3:FE=192800
038	tr213103 CCV			08-AUG-2003 10:32 1.0	1.0	1	6	
039	tr213104 CCB			08-AUG-2003 10:39 1.0	1.0			
040	tr213105 SAMPLE	166804-015	83531 Soil	08-AUG-2003 10:43 1.0	44.05286			4:CA=207000
041	tr213106 SAMPLE	166804-016	83531 Soil	08-AUG-2003 10:47 1.0	45.87156			1:FE=143900
042	tr213107 SAMPLE	166804-017	83531 Soil	08-AUG-2003 10:51 1.0	46.94836			2:FE=156400
043	tr213108 SAMPLE	166804-018	83531 Soil	08-AUG-2003 10:55 1.0	49.26108			1:FE=149100
044	tr213109 SAMPLE	166804-019	83531 Soil	08-AUG-2003 10:59 1.0	45.24887			2:FE=176200
045	tr213110 SAMPLE	166804-020	83531 Soil	08-AUG-2003 11:03 1.0	45.04505			2:FE=181600
046	tr213111 SAMPLE	166804-021	83531 Soil	08-AUG-2003 11:07 1.0	42.19409			3:FE=334200
047	tr213112 BLANK	QC221663	83530 Soil	08-AUG-2003 11:13 1.0	50.0	4		
048	tr213113 BS	QC221664	83530 Soil	08-AUG-2003 11:17 1.0	50.0	4		
049	tr213114 BSD	QC221665	83530 Soil	08-AUG-2003 11:21 1.0	50.0	4		
050	tr213115 CCV			08-AUG-2003 11:28 1.0	1.0		5	
051	tr213116 CCB			08-AUG-2003 11:33 1.0	1.0			
052	tr213117 MSS	166797-001	83530 Soil	08-AUG-2003 11:37 1.0	48.30918	4		
053	tr213118 SER	QC221668	83530 Soil	08-AUG-2003 11:41 5.0	48.30918			
054	tr213119 MS	QC221666	83530 Soil	08-AUG-2003 11:44 1.0	42.55319	2		
055	tr213120 MSD	QC221667	83530 Soil	08-AUG-2003 11:48 1.0	40.65041	2		
056	tr213121 SAMPLE	166803-002	83530 Soil	08-AUG-2003 11:52 1.0	41.49378			3:FE=444800
057	tr213122 SAMPLE	166803-003	83530 Soil	08-AUG-2003 11:55 1.0	46.08295			3:FE=224100
058	tr213123 SAMPLE	166803-004	83530 Soil	08-AUG-2003 11:59 1.0	45.45455			2:MG=233000
059	tr213124 SAMPLE	166803-005	83530 Soil	08-AUG-2003 12:02 1.0	49.01961			2:MG=222700
060	tr213125 SAMPLE	166803-006	83530 Soil	08-AUG-2003 12:06 1.0	49.26108			2:MG=360000
061	tr213126 CCV			08-AUG-2003 12:10 1.0	1.0	1	6	
062	tr213127 CCB			08-AUG-2003 12:16 1.0	1.0			
063	tr213128 SAMPLE	166804-022	83530 Soil	08-AUG-2003 12:20 1.0	48.78049			1:FE=151800
064	tr213129 SAMPLE	166804-023	83530 Soil	08-AUG-2003 12:24 1.0	50.0			1:FE=124600

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: Mei Date: 8/8/03

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 08-AUG-2003

TJA Trace ICP

Instrument: MET07

sequence: 73317180

#	Filename	Type	Sample Num	Batch	Matrix Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
65	tr213130	SAMPLE	166797-002	83530	Soil	08-AUG-2003 12:27	1.0	44.05286				2:AL=138100
66	tr213131	SAMPLE	166797-003	83530	Soil	08-AUG-2003 12:31	1.0	45.45455				2:AL=138700
67	tr213132	SAMPLE	166798-001	83530	Soil	08-AUG-2003 12:34	1.0	39.52569	1			
68	tr213133	CCV				08-AUG-2003 12:41	1.0	1.0			5	
69	tr213134	CCB				08-AUG-2003 12:46	1.0	1.0				
70	tr213135	SAMPLE	166798-001	83530	Soil	08-AUG-2003 12:51	1.0	39.52569				2:AL=186000
71	tr213136	SAMPLE	166798-002	83530	Soil	08-AUG-2003 12:54	1.0	40.16064				5:CA=201300
72	tr213137	SAMPLE	166798-003	83530	Soil	08-AUG-2003 12:57	1.0	44.05286	2			
73	tr213138	SAMPLE	166798-003	83530	Soil	08-AUG-2003 13:05	50.0	44.05286				1:FE=112400
74	tr213139	PDS	QC221754	83530	Soil	08-AUG-2003 13:10	1.0	48.30918	1	9	7 8	
75	tr213140	SAMPLE	166581-002	83515	Air	08-AUG-2003 13:14	1.0	600.0240				
76	tr213141	SAMPLE	166581-004	83515	Air	08-AUG-2003 13:17	1.0	600.0240				1:ZN=5840.00
77	tr213142	SAMPLE	166581-010	83515	Air	08-AUG-2003 13:21	1.0	600.0240				
78	tr213143	SAMPLE	166695-002	83515	Air	08-AUG-2003 13:24	1.0	600.0240				
79	tr213144	SAMPLE	166695-003	83515	Air	08-AUG-2003 13:28	1.0	600.0240				4:AL=455200
80	tr213145	ICSAB				08-AUG-2003 13:34	1.0	1.0			4	
81	tr213146	CCV				08-AUG-2003 13:41	1.0	1.0			6	
82	tr213147	CCB				08-AUG-2003 13:46	1.0	1.0				
83	tr213148	BLANK	QC221745	83546	Soil	08-AUG-2003 13:50	1.0	50.0				
84	tr213149	BS	QC221746	83546	Soil	08-AUG-2003 13:55	1.0	50.0				
85	tr213150	BSD	QC221747	83546	Soil	08-AUG-2003 13:58	1.0	50.0				2:FE=178300
86	tr213151	MSS	166668-028	83546	Soil	08-AUG-2003 14:02	1.0	50.0	2			
87	tr213152	SER	QC221750	83546	Soil	08-AUG-2003 14:09	5.0	50.0	1			3:FE=204000
88	tr213153	MS	QC221748	83546	Soil	08-AUG-2003 14:12	1.0	49.01961				3:FE=190000
89	tr213154	MSD	QC221749	83546	Soil	08-AUG-2003 14:16	1.0	48.30918				4:MG=423900
90	tr213155	ICSAB				08-AUG-2003 14:46	1.0	1.0			4	
91	tr213156	CCV				08-AUG-2003 14:54	1.0	1.0			6	
92	tr213157	CCB				08-AUG-2003 15:04	1.0	1.0				2:FE=223000
93	tr213158	SAMPLE	166716-002	83521	Soil	08-AUG-2003 15:15	1.0	46.29630				2:FE=221600
94	tr213159	SAMPLE	166716-003	83521	Soil	08-AUG-2003 15:18	1.0	46.72897				1:FE=133800
95	tr213160	SAMPLE	166716-004	83521	Soil	08-AUG-2003 15:22	1.0	44.24779				1:FE=126400
96	tr213161	SAMPLE	166716-005	83521	Soil	08-AUG-2003 15:25	1.0	49.01961				

stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Mc *8/27/03*

Date:

Analyst:

Page 3 of 4

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 08-AUG-2003

Sequence: 73317180 Instrument: MET07 TJA Trace ICP

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std	Used	>LR
097	tr213162	SAMPLE	166716-006	83521	Soil	08-AUG-2003	15:29	1.0	47.61905					1:FE=125400
098	tr213163	SAMPLE	166716-007	83521	Soil	08-AUG-2003	15:32	1.0	48.78049					1:FE=129700
099	tr213164	SAMPLE	166716-008	83521	Soil	08-AUG-2003	15:36	1.0	46.72897					1:FE=175800
100	tr213165	SAMPLE	166716-010	83521	Soil	08-AUG-2003	15:39	1.0	48.30918					1:FE=142500
101	tr213166	SAMPLE	166716-011	83521	Soil	08-AUG-2003	15:45	1.0	48.30918					1:FE=149700
102	tr213167	SAMPLE	166716-012	83521	Soil	08-AUG-2003	15:49	1.0	48.30918					1:FE=147500
103	tr213168	CCV				08-AUG-2003	15:56	1.0	1.0				6	
104	tr213169	CCB				08-AUG-2003	16:02	1.0	1.0					
105	tr213170	ICSAB				08-AUG-2003	16:13	1.0	1.0				4	4:MG=437200

Std's used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151 7=03SS286 8=03SS287

Analyst: M. G. W. H. Date: 8/10

Method: 6010B Standard: blank
Run Time: 08/11/03 07:09:36

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	.004	-.000	.004	-.626	.006	.002
SDev	.001	.001	.001	.002	.003	.001	.000
%RSD	50.5	12.6	1410.	46.4	.557	14.1	3.14
#1	-.003	.004	-.001	.006	-.628	.007	.002
#2	-.001	.003	.001	.003	-.623	.006	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.003	.014	-.004	.003	.003	-.008
SDev	.000	.001	.003	.001	.000	.000	.004
%RSD	4.56	35.8	22.0	16.9	9.64	1.79	44.9
#1	-.001	.003	.012	-.004	.003	.003	-.006
#2	-.001	.002	.016	-.003	.003	.003	-.011
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	.004	-.001	.002	.032	.1745	.0033
SDev	.003	.003	.001	.002	.000	.0001	.0001
%RSD	53.0	70.2	195.	69.7	1.19	.0540	1.428
#1	.004	.006	-.002	.003	.032	.1744	.0033
#2	.008	.002	.000	.001	.032	.1745	.0033
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0032	.0022	.001	.365			
SDev	.0007	.0003	.000	.001			
%RSD	20.62	14.78	26.9	.362			
#1	-.0027	.0025	.002	.364			
#2	-.0037	.0020	.001	.366			

Method: 6010B Standard: cst hi
Run Time: 08/11/03 07:15:41

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.77	1.05	.424	59.2	8.59	2.33	.600
SDev	.09	.04	.004	.1	.07	.01	.005
%RSD	5.34	4.12	.822	.107	.795	.517	.857
#1	1.70	1.02	.427	59.3	8.64	2.34	.603
#2	1.84	1.08	.422	59.2	8.54	2.32	.596
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	1.64	1.63	1.76	1.75	3.11	3.99	.464
SDev	.01	.00	.03	.01	.00	.03	.008
%RSD	.653	.027	1.84	.562	.123	.699	1.78
#1	1.65	1.63	1.78	1.74	3.12	4.01	.470
#2	1.63	1.63	1.73	1.75	3.11	3.97	.458
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.546	.956	.280	2.44	.343	.5121	.8554
SDev	.000	.004	.001	.01	.002	.0014	.0050
%RSD	.035	.434	.253	.507	.673	.2762	.5896
#1	.546	.959	.279	2.45	.345	.5111	.8590
#2	.546	.953	.280	2.43	.342	.5131	.8519
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.3122	.4627	2.68	23.3			
SDev	.0021	.0019	.01	.1			
%RSD	.6644	.4075	.397	.296			
#1	.3107	.4641	2.69	23.4			
#2	.3137	.4614	2.68	23.3			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	562.087	1.04923	08/11/03 07:15:41
Sb206A	206.832	Multiple	Standards	939.062	-3.50583	08/11/03 07:15:41
As1890	189.042	Multiple	Standards	1179.61	.078641	08/11/03 07:15:41
Ba4934	493.409	Multiple	Standards	16.8867	-.072050	08/11/03 07:15:41
Be3130	313.042	Multiple	Standards	10.4807	6.55953	08/11/03 07:15:41
Cd2265	226.502	Multiple	Standards	43.0363	-.273998	08/11/03 07:15:41
Cr2677	267.716	Multiple	Standards	334.636	-.501954	08/11/03 07:15:41
Co2286	228.616	Multiple	Standards	304.940	.315105	08/11/03 07:15:41
Cu3247	324.754	Multiple	Standards	122.915	-.323677	08/11/03 07:15:41
Pb2203	220.351	Multiple	Standards	287.228	-3.94460	08/11/03 07:15:41
Pb220A	220.352	Multiple	Standards	283.656	1.03062	08/11/03 07:15:41
Mo2020	202.030	Multiple	Standards	321.375	-.942699	08/11/03 07:15:41
Ni2316	231.604	Multiple	Standards	125.215	-.329733	08/11/03 07:15:41
Se1960	196.021	Multiple	Standards	1059.38	9.00471	08/11/03 07:15:41
Se196A	196.022	Multiple	Standards	924.679	-5.42479	08/11/03 07:15:41
Ag3280	328.068	Multiple	Standards	105.090	-.444880	08/11/03 07:15:41
Tl1908	190.864	Multiple	Standards	1794.85	1.25639	08/11/03 07:15:41
V_2924	292.402	Multiple	Standards	205.072	-.457994	08/11/03 07:15:41
Zn2138	213.856	Multiple	Standards	332.654	-10.5784	08/11/03 07:15:41
Al3082	308.215	Multiple	Standards	3000.27	-523.447	08/11/03 07:15:41
Ca3179	317.933	Multiple	Standards	2347.08	-7.74536	08/11/03 07:15:41
Fe2714	271.441	Multiple	Standards	3306.35	10.5803	08/11/03 07:15:41
Mg2790	279.079	Multiple	Standards	4341.92	-9.69696	08/11/03 07:15:41
Mn2576	257.610	Multiple	Standards	37.2921	-.052209	08/11/03 07:15:41
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/11/03 07:15:41
Ti3349	334.941	Multiple	Standards	43.5884	-15.9068	08/11/03 07:15:41

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562001

Run Name :
Filename : tr213173

Injected : 11-AUG-2003 07:22
Caltype :

Standards: ,03WS1109

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	990.3000	ug/L	-1		5	
Antimony	1000.000	1000.000	ug/L	0		5	
Arsenic	500.0000	503.0000	ug/L	1		5	
Barium	1000.000	1010.000	ug/L	1		5	
Beryllium	100.0000	101.0000	ug/L	1		5	
Cadmium	100.0000	102.0000	ug/L	2		5	
Calcium	2000.000	2000.000	ug/L	0		5	
Chromium	200.0000	202.0000	ug/L	1		5	
Cobalt	500.0000	504.0000	ug/L	1		5	
Copper	200.0000	200.0000	ug/L	0		5	
Iron	1000.000	996.7000	ug/L	0		5	
Lead	500.0000	501.0000	ug/L	0		5	
Magnesium	2000.000	2007.000	ug/L	0		5	
Manganese	100.0000	101.0000	ug/L	1		5	
Molybdenum	1000.000	1020.000	ug/L	2		5	
Nickel	500.0000	508.0000	ug/L	2		5	
Selenium	500.0000	496.0000	ug/L	-1		5	
Silver	100.0000	101.0000	ug/L	1		5	
Thallium	500.0000	508.0000	ug/L	2		5	
Titanium	1000.000	1000.000	ug/L	0		5	
Vanadium	500.0000	504.0000	ug/L	1		5	
Zinc	100.0000	101.0000	ug/L	1		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562002

Run Name :
Filename : tr213174

Injected : 11-AUG-2003 07:26
Caltype :

Standards: 03WS1149

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500.0000	489.8000	ug/L	-2		10	
Antimony	500.0000	538.0000	ug/L	8		10	
Arsenic	250.0000	260.0000	ug/L	4		10	
Barium	500.0000	502.0000	ug/L	0		10	
Beryllium	50.00000	53.30000	ug/L	7		10	
Cadmium	50.00000	51.30000	ug/L	3		10	
Calcium	1000.000	1041.000	ug/L	4		10	
Chromium	100.0000	106.0000	ug/L	6		10	
Cobalt	250.0000	258.0000	ug/L	3		10	
Copper	100.0000	104.0000	ug/L	4		10	
Iron	500.0000	546.5000	ug/L	9		10	
Lead	250.0000	250.0000	ug/L	0		10	
Magnesium	1000.000	1057.000	ug/L	6		10	
Manganese	50.00000	52.00000	ug/L	4		10	
Molybdenum	500.0000	516.0000	ug/L	3		10	
Nickel	250.0000	263.0000	ug/L	5		10	
Selenium	250.0000	244.0000	ug/L	-2		10	
Silver	50.00000	51.30000	ug/L	3		10	
Thallium	250.0000	247.0000	ug/L	-1		10	
Titanium	500.0000	520.0000	ug/L	4		10	
Vanadium	250.0000	258.0000	ug/L	3		10	
Zinc	50.00000	52.80000	ug/L	6		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562004

Run Name :
Filename : tr213176

Injected : 11-AUG-2003 07:35
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	93.26000	ug/L	-7	50	
Antimony	60.00000	71.40000	ug/L	19	50	
Arsenic	5.000000	3.400000	ug/L	-32	50	
Barium	10.00000	10.70000	ug/L	7	50	
Beryllium	2.000000	2.020000	ug/L	1	50	
Cadmium	5.000000	4.640000	ug/L	-7	50	
Chromium	10.00000	9.470000	ug/L	-5	50	
Cobalt	20.00000	19.00000	ug/L	-5	50	
Copper	10.00000	10.00000	ug/L	0	50	
Iron	100.0000	97.90000	ug/L	-2	50	
Lead	3.000000	1.770000	ug/L	-41	50	
Manganese	10.00000	9.580000	ug/L	-4	50	
Molybdenum	20.00000	18.90000	ug/L	-6	50	
Nickel	20.00000	19.30000	ug/L	-4	50	
Selenium	5.000000	5.670000	ug/L	13	50	
Silver	5.000000	4.550000	ug/L	-9	50	
Thallium	5.000000	2.800000	ug/L	-44	50	
Vanadium	10.00000	9.810000	ug/L	-2	50	
Zinc	20.00000	19.80000	ug/L	-1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562014

Run Name :
Filename : tr213186

Injected : 11-AUG-2003 08:26
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	488.8000	ug/L	-2		10	
Antimony		500.0000	526.0000	ug/L	5		10	
Arsenic		250.0000	259.0000	ug/L	4		10	
Barium		500.0000	489.0000	ug/L	-2		10	
Beryllium		50.00000	52.90000	ug/L	6		10	
Cadmium		50.00000	50.40000	ug/L	1		10	
Calcium		1000.000	1028.000	ug/L	3		10	
Chromium		100.0000	104.0000	ug/L	4		10	
Cobalt		250.0000	255.0000	ug/L	2		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	538.3000	ug/L	8		10	
Lead		250.0000	251.0000	ug/L	0		10	
Magnesium		1000.000	1044.000	ug/L	4		10	
Manganese		50.00000	51.00000	ug/L	2		10	
Molybdenum		500.0000	506.0000	ug/L	1		10	
Nickel		250.0000	261.0000	ug/L	4		10	
Selenium		250.0000	247.0000	ug/L	-1		10	
Silver		50.00000	50.50000	ug/L	1		10	
Thallium		250.0000	255.0000	ug/L	2		10	
Titanium		500.0000	511.0000	ug/L	2		10	
Vanadium		250.0000	253.0000	ug/L	1		10	
Zinc		50.00000	52.50000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instd : MET07
Seqnum : 73321562026

Run Name :
Filename : tr213198

Injected : 11-AUG-2003 09:38
Caltype :

Standards: Q3WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	778.6000	ug/L	4	10	
Antimony		750.0000	762.0000	ug/L	2	10	
Arsenic		375.0000	409.0000	ug/L	9	10	
Barium		750.0000	777.0000	ug/L	4	10	
Beryllium		75.00000	82.10000	ug/L	9	10	
Cadmium		75.00000	78.90000	ug/L	5	10	
Calcium		1500.000	1617.000	ug/L	8	10	
Chromium		150.0000	161.0000	ug/L	7	10	
Cobalt		375.0000	396.0000	ug/L	6	10	
Copper		150.0000	161.0000	ug/L	7	10	
Iron		750.0000	808.4000	ug/L	8	10	
Lead		375.0000	389.0000	ug/L	4	10	
Magnesium		1500.000	1622.000	ug/L	8	10	
Manganese		75.00000	79.50000	ug/L	6	10	
Molybdenum		750.0000	774.0000	ug/L	3	10	
Nickel		375.0000	402.0000	ug/L	7	10	
Selenium		375.0000	386.0000	ug/L	3	10	
Silver		75.00000	78.80000	ug/L	5	10	
Thallium		375.0000	386.0000	ug/L	3	10	
Titanium		750.0000	801.0000	ug/L	7	10	
Vanadium		375.0000	396.0000	ug/L	6	10	
Zinc		75.00000	80.00000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562038

Run Name :
Filename : tr213210

Injected : 11-AUG-2003 10:44
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	512.1000	ug/L	2		10	
Antimony		500.0000	535.0000	ug/L	7		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	490.0000	ug/L	-2		10	
Beryllium		50.00000	51.10000	ug/L	2		10	
Cadmium		50.00000	49.20000	ug/L	-2		10	
Calcium		1000.000	1000.000	ug/L	0		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	248.0000	ug/L	-1		10	
Copper		100.0000	101.0000	ug/L	1		10	
Iron		500.0000	548.7000	ug/L	10		10	
Lead		250.0000	261.0000	ug/L	4		10	
Magnesium		1000.000	1022.000	ug/L	2		10	
Manganese		50.00000	49.70000	ug/L	-1		10	
Molybdenum		500.0000	507.0000	ug/L	1		10	
Nickel		250.0000	252.0000	ug/L	1		10	
Selenium		250.0000	241.0000	ug/L	-4		10	
Silver		50.00000	50.40000	ug/L	1		10	
Thallium		250.0000	242.0000	ug/L	-3		10	
Titanium		500.0000	506.0000	ug/L	1		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	50.90000	ug/L	2		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562050

Run Name :
Filename : tr213222

Injected : 11-AUG-2003 11:39
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	747.5000	ug/L	0	10	
Antimony		750.0000	715.0000	ug/L	-5	10	
Arsenic		375.0000	386.0000	ug/L	3	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	73.60000	ug/L	-2	10	
Calcium		1500.000	1495.000	ug/L	0	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	737.3000	ug/L	-2	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1541.000	ug/L	3	10	
Manganese		75.00000	71.60000	ug/L	-5	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	377.0000	ug/L	1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	749.0000	ug/L	0	10	
Vanadium		375.0000	365.0000	ug/L	-3	10	
Zinc		75.00000	75.50000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562062

Run Name :
Filename : tr213235

Injected : 11-AUG-2003 12:41
Caltpe :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	489.0000	ug/L	-2	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.00000	ug/L	-2	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	912.3000	ug/L	-9	10	
Chromium		100.0000	97.00000	ug/L	-3	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	93.90000	ug/L	-6	10	
Iron		500.0000	512.9000	ug/L	3	10	
Lead		250.0000	240.0000	ug/L	-4	10	
Magnesium		1000.000	972.9000	ug/L	-3	10	
Manganese		50.00000	46.00000	ug/L	-8	10	
Molybdenum		500.0000	479.0000	ug/L	-4	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	47.30000	ug/L	-5	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	488.0000	ug/L	-2	10	
Vanadium		250.0000	235.0000	ug/L	-6	10	
Zinc		50.00000	50.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562074

Run Name :
Filename : tr213247

Injected : 11-AUG-2003 13:33
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	740.7000	ug/L	-1	10	
Antimony		750.0000	706.0000	ug/L	-6	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	734.0000	ug/L	-2	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	73.00000	ug/L	-3	10	
Calcium		1500.000	1504.000	ug/L	0	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	727.1000	ug/L	-3	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1505.000	ug/L	0	10	
Manganese		75.00000	73.80000	ug/L	-2	10	
Molybdenum		750.0000	728.0000	ug/L	-3	10	
Nickel		375.0000	373.0000	ug/L	-1	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	75.40000	ug/L	1	10	
Thallium		375.0000	366.0000	ug/L	-2	10	
Titanium		750.0000	750.0000	ug/L	0	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	74.50000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562085

Run Name :
Filename : tr213258

Injected : 11-AUG-2003 14:30
Caltype :

Standards: 03WS1151

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	707.1000	ug/L	-6		10	
Antimony		750.0000	695.0000	ug/L	-7		10	
Arsenic		375.0000	377.0000	ug/L	1		10	
Barium		750.0000	723.0000	ug/L	-4		10	
Beryllium		75.00000	73.10000	ug/L	-3		10	
Cadmium		75.00000	72.00000	ug/L	-4		10	
Calcium		1500.000	1407.000	ug/L	-6		10	
Chromium		150.0000	144.0000	ug/L	-4		10	
Cobalt		375.0000	355.0000	ug/L	-5		10	
Copper		150.0000	144.0000	ug/L	-4		10	
Iron		750.0000	694.4000	ug/L	-7		10	
Lead		375.0000	355.0000	ug/L	-5		10	
Magnesium		1500.000	1443.000	ug/L	-4		10	
Manganese		75.00000	70.00000	ug/L	-7		10	
Molybdenum		750.0000	709.0000	ug/L	-5		10	
Nickel		375.0000	364.0000	ug/L	-3		10	
Selenium		375.0000	363.0000	ug/L	-3		10	
Silver		75.00000	71.60000	ug/L	-5		10	
Thallium		375.0000	362.0000	ug/L	-3		10	
Titanium		750.0000	723.0000	ug/L	-4		10	
Vanadium		375.0000	354.0000	ug/L	-6		10	
Zinc		75.00000	72.30000	ug/L	-4		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562097

Run Name :
Filename : tr213270

Injected : 11-AUG-2003 15:20
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	495.8000	ug/L	-1	10	
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	49.00000	ug/L	-2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	930.7000	ug/L	-7	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	95.80000	ug/L	-4	10	
Iron		500.0000	537.5000	ug/L	8	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1005.000	ug/L	1	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	484.0000	ug/L	-3	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	47.60000	ug/L	-5	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	490.0000	ug/L	-2	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562109

Run Name :
Filename : tr213282

Injected : 11-AUG-2003 16:13
Caltype :

Standards: 03WS1150

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	483.7000	ug/L	-3	10	
Antimony		500.0000	484.0000	ug/L	-3	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	48.70000	ug/L	-3	10	
Cadmium		50.00000	49.50000	ug/L	-1	10	
Calcium		1000.000	906.1000	ug/L	-9	10	
Chromium		100.0000	96.10000	ug/L	-4	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	93.80000	ug/L	-6	10	
Iron		500.0000	502.0000	ug/L	0	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	972.3000	ug/L	-3	10	
Manganese		50.00000	46.40000	ug/L	-7	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	239.0000	ug/L	-4	10	
Silver		50.00000	46.80000	ug/L	-6	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	486.0000	ug/L	-3	10	
Vanadium		250.0000	236.0000	ug/L	-6	10	
Zinc		50.00000	51.20000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562003
Filename: tr213175

TJA Trace ICP
Run Name:
Blank Type: ICB

Injected: 11-AUG-2003 07:31

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[1.5000]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.3600]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[0.7854]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1720]	10.00000	ug/L	<RL	
Iron	[5.6350]	100.0000	ug/L	<RL	
Lead	[0.7010]	3.000000	ug/L	<RL	
Magnesium	[1.4480]	500.0000	ug/L	<RL	
Manganese	[0.0460]	10.00000	ug/L	<RL	
Molybdenum	[1.2100]	20.00000	ug/L	<RL	
Nickel	[0.0570]	20.00000	ug/L	<RL	
Selenium	[1.8800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.0400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.2910]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562015
Filename: tr213187

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 08:30

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[1.2000]	100.0000	ug/L	<RL	
Antimony	[1.4600]	60.00000	ug/L	<RL	
Arsenic	[1.3300]	5.000000	ug/L	<RL	
Barium	[0.0430]	10.00000	ug/L	<RL	
Beryllium	[0.2340]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.7220]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[0.1720]	10.00000	ug/L	<RL	
Iron	[2.7750]	100.0000	ug/L	<RL	
Lead	[0.0370]	3.000000	ug/L	<RL	
Magnesium	[5.3550]	500.0000	ug/L	<RL	
Manganese	[0.0720]	10.00000	ug/L	<RL	
Molybdenum	[1.9900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.0000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.7560]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562027
Filename: tr213199

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 09:51

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[6.8870]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[1.3100]	5.000000	ug/L	<RL	
Barium	[0.0590]	10.00000	ug/L	<RL	
Beryllium	[0.5380]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.5190]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.4490]	100.0000	ug/L	<RL	
Lead	[0.1870]	3.000000	ug/L	<RL	
Magnesium	[3.3330]	500.0000	ug/L	<RL	
Manganese	[0.0760]	10.00000	ug/L	<RL	
Molybdenum	[2.5900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[2.0800]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[2.6100]	5.000000	ug/L	<RL	
Titanium	[2.2400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.8050]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562039
Filename: tr213211

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 10:53

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[17.680]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0260]	10.00000	ug/L	<RL	
Beryllium	[0.7390]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[1.9740]	500.0000	ug/L	<RL	
Chromium	[0.0110]	10.00000	ug/L	<RL	
Cobalt	[0.2140]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[6.5440]	100.0000	ug/L	<RL	
Lead	[1.7100]	3.000000	ug/L	<RL	
Magnesium	[1.5280]	500.0000	ug/L	<RL	
Manganese	[0.1020]	10.00000	ug/L	<RL	
Molybdenum	[0.5580]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[1.1900]	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.2830]	5.000000	ug/L	<RL	
Titanium	[1.6200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.5760]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562051
Filename: tr213223

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 11:45

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[28.440]	100.0000	ug/L	<RL	
Antimony	[8.1100]	60.00000	ug/L	<RL	
Arsenic	[1.5700]	5.000000	ug/L	<RL	
Barium	[0.1150]	10.00000	ug/L	<RL	
Beryllium	[1.1700]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[11.530]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.2140]	10.00000	ug/L	<RL	
Copper	[0.3030]	10.00000	ug/L	<RL	
Iron	[6.1010]	100.0000	ug/L	<RL	
Lead	[0.9860]	3.000000	ug/L	<RL	
Magnesium	[11.250]	500.0000	ug/L	<RL	
Manganese	[0.0940]	10.00000	ug/L	<RL	
Molybdenum	[5.3200]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	[0.0750]	5.000000	ug/L	<RL	
Silver	[0.0750]	5.000000	ug/L	<RL	
Thallium	[3.2300]	5.000000	ug/L	<RL	
Titanium	[3.1600]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[0.8340]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 73321562063
Filename: tr213236

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 12:47

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[35.450]	100.0000	ug/L	<RL	
Antimony	[2.1700]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0570]	10.00000	ug/L	<RL	
Beryllium	[0.0430]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[6.1510]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	[0.1070]	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[19.770]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[7.7780]	500.0000	ug/L	<RL	
Manganese	[0.2910]	10.00000	ug/L	<RL	
Molybdenum	[1.8700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[4.4300]	5.000000	ug/L	<RL	
Titanium	[2.7200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.1100]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562075
Filename: tr213248

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 13:40

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[42.970]	100.0000	ug/L	<RL		
Antimony	[11.200]	60.00000	ug/L	<RL		
Arsenic	[0.7800]	5.000000	ug/L	<RL		
Barium	[0.2440]	10.00000	ug/L	<RL		
Beryllium	[0.8910]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[7.2890]	500.0000	ug/L	<RL		
Chromium	[0.0220]	10.00000	ug/L	<RL		
Cobalt	[0.1550]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[12.890]	100.0000	ug/L	<RL		
Lead	[1.2600]	3.000000	ug/L	<RL		
Magnesium	[6.2280]	500.0000	ug/L	<RL		
Manganese	[0.1560]	10.00000	ug/L	<RL		
Molybdenum	[5.6100]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	[1.8800]	5.000000	ug/L	<RL		
Silver	[0.1590]	5.000000	ug/L	<RL		
Thallium	[0.5130]	5.000000	ug/L	<RL		
Titanium	[3.2600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[1.0300]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562086
Filename: tr213259

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 14:35

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[50.040]	100.0000	ug/L	<RL		
Antimony	[1.5900]	60.00000	ug/L	<RL		
Arsenic	[0.0350]	5.000000	ug/L	<RL		
Barium	[0.1680]	10.00000	ug/L	<RL		
Beryllium	[1.6800]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[13.440]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[0.0720]	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[13.610]	100.0000	ug/L	<RL		
Lead	[0.0920]	3.000000	ug/L	<RL		
Magnesium	[9.9340]	500.0000	ug/L	<RL		
Manganese	[0.3280]	10.00000	ug/L	<RL		
Molybdenum	[4.2400]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[2.5800]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[0.8070]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562098
Filename: tr213271

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 15:26

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[44.450]	100.0000	ug/L	<	RL
Antimony	[5.6200]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	[0.1130]	10.00000	ug/L	<	RL
Beryllium	[0.5230]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[1.3230]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	[0.0310]	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[22.190]	100.0000	ug/L	<	RL
Lead	[1.8800]	3.000000	ug/L	<	RL
Magnesium	[11.270]	500.0000	ug/L	<	RL
Manganese	[0.3410]	10.00000	ug/L	<	RL
Molybdenum	[1.9700]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	[1.1000]	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	[0.9630]	5.000000	ug/L	<	RL
Titanium	[2.5000]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	[1.8400]	20.00000	ug/L	<	RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 73321562110
Filename: tr213283

TJA Trace ICP
Run Name:
Blank Type: CCB

Injected: 11-AUG-2003 16:22

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[46.910]	100.0000	ug/L	<RL	
Antimony	[10.200]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.0820]	10.00000	ug/L	<RL	
Beryllium	[0.9030]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[4.4640]	100.0000	ug/L	<RL	
Lead	[1.5500]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	[0.1080]	10.00000	ug/L	<RL	
Molybdenum	[3.0200]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[0.5690]	5.000000	ug/L	<RL	
Titanium	[2.1400]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[1.1000]	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562005

Run Name :
Filename : tr213177

Injected : 11-AUG-2003 07:42
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	454600.0	ug/L	-9		
Antimony	500.0000	501.0000	ug/L	0	20	
Arsenic	500.0000	497.0000	ug/L	-1	20	
Barium	500.0000	456.0000	ug/L	-9	20	
Beryllium	500.0000	451.0000	ug/L	-10	20	
Cadmium	1000.000	870.0000	ug/L	-13	20	
Calcium	500000.0	386300.0	ug/L	-23		
Chromium	500.0000	429.0000	ug/L	-14	20	
Cobalt	500.0000	425.0000	ug/L	-15	20	
Copper	500.0000	486.0000	ug/L	-3	20	
Iron	200000.0	164300.0	ug/L	-18		
Lead	1000.000	908.0000	ug/L	-9	20	
Magnesium	500000.0	473800.0	ug/L	-5		
Manganese	500.0000	433.0000	ug/L	-13	20	
Molybdenum	500.0000	436.0000	ug/L	-13	20	
Nickel	1000.000	931.0000	ug/L	-7	20	
Selenium	500.0000	463.0000	ug/L	-7	20	
Silver	1000.000	990.0000	ug/L	-1	20	
Thallium	500.0000	416.0000	ug/L	-17	20	
Titanium	20000.00	1800.000	ug/L	-91		
Vanadium	500.0000	436.0000	ug/L	-13	20	
Zinc	1000.000	931.0000	ug/L	-7	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 73321562049

Run Name :
Filename : tr213221

Injected : 11-AUG-2003 11:33
Caltype :

Standards: 03WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	443700.0	ug/L	-11			
Antimony	500.0000	473.0000	ug/L	-5		20	
Arsenic	500.0000	494.0000	ug/L	-1		20	
Barium	500.0000	461.0000	ug/L	-8		20	
Beryllium	500.0000	436.0000	ug/L	-13		20	
Cadmium	1000.000	855.0000	ug/L	-15		20	
Calcium	500000.0	374100.0	ug/L	-25			
Chromium	500.0000	421.0000	ug/L	-16		20	
Cobalt	500.0000	415.0000	ug/L	-17		20	
Copper	500.0000	488.0000	ug/L	-2		20	
Iron	200000.0	161900.0	ug/L	-19			
Lead	1000.000	908.0000	ug/L	-9		20	
Magnesium	500000.0	468500.0	ug/L	-6			
Manganese	500.0000	418.0000	ug/L	-16		20	
Molybdenum	500.0000	430.0000	ug/L	-14		20	
Nickel	1000.000	918.0000	ug/L	-8		20	
Selenium	500.0000	465.0000	ug/L	-7		20	
Silver	1000.000	914.0000	ug/L	-9		20	
Thallium	500.0000	420.0000	ug/L	-16		20	
Titanium	20000.00	1800.000	ug/L	-91			
Vanadium	500.0000	429.0000	ug/L	-14		20	
Zinc	1000.000	915.0000	ug/L	-9		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73321562111

Run Name :
Filename : tr213285

Injected : 11-AUG-2003 16:29
Caltype :

Standards: Q3WS1089

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	393100.0	ug/L	-21			
Antimony	500.0000	489.0000	ug/L	-2	20		
Arsenic	500.0000	482.0000	ug/L	-4	20		
Barium	500.0000	456.0000	ug/L	-9	20		
Beryllium	500.0000	429.0000	ug/L	-14	20		
Cadmium	1000.000	839.0000	ug/L	-16	20		
Calcium	500000.0	338300.0	ug/L	-32			
Chromium	500.0000	420.0000	ug/L	-16	20		
Cobalt	500.0000	415.0000	ug/L	-17	20		
Copper	500.0000	491.0000	ug/L	-2	20		
Iron	200000.0	151900.0	ug/L	-24			
Lead	1000.000	894.0000	ug/L	-11	20		
Magnesium	500000.0	439900.0	ug/L	-12			
Manganese	500.0000	429.0000	ug/L	-14	20		
Molybdenum	500.0000	439.0000	ug/L	-12	20		
Nickel	1000.000	899.0000	ug/L	-10	20		
Selenium	500.0000	450.0000	ug/L	-10	20		
Silver	1000.000	984.0000	ug/L	-2	20		
Thallium	500.0000	403.0000	ug/L	-19	20		
Titanium	20000.00	1800.000	ug/L	-91			
Vanadium	500.0000	434.0000	ug/L	-13	20		
Zinc	1000.000	894.0000	ug/L	-11	20		

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73321562 Instrument: MET07 TJA Trace ICP Begun: 11-AUG-2003

#	Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
001	tr213173	CS				11-AUG-2003	07:22	1.0				1		
002	tr213174	ICV				11-AUG-2003	07:26	1.0				2		
003	tr213175	ICB				11-AUG-2003	07:31	1.0						
004	tr213176	CRI				11-AUG-2003	07:35	1.0				3		
005	tr213177	ICSAB				11-AUG-2003	07:42	1.0				4		4:MG=473800
006	tr213178	BLANK	QC221888	83581	Water	11-AUG-2003	07:47	1.0						
007	tr213179	BS	QC221889	83581	Water	11-AUG-2003	07:54	1.0						
008	tr213180	BSD	QC221890	83581	Water	11-AUG-2003	07:58	1.0						
009	tr213181	MSS	166829-001	83581	Water	11-AUG-2003	08:03	1.0						
010	tr213182	MS	QC221891	83581	Water	11-AUG-2003	08:08	1.0						
011	tr213183	MSD	QC221892	83581	Water	11-AUG-2003	08:12	1.0						
012	tr213184	SAMPLE	166829-015	83581	Water	11-AUG-2003	08:17	1.0						
013	tr213185	SAMPLE	166791-001	83581	Water	11-AUG-2003	08:21	1.0						
014	tr213186	CCV				11-AUG-2003	08:26	1.0				5		
015	tr213187	CCB				11-AUG-2003	08:30	1.0						
016	tr213188	BLANK	QC221870	83578	Soil	11-AUG-2003	08:36	1.0						
017	tr213189	BS	QC221871	83578	Soil	11-AUG-2003	08:40	1.0						
018	tr213190	BSD	QC221872	83578	Soil	11-AUG-2003	08:44	1.0						
019	tr213191	MSS	166829-002	83578	Soil	11-AUG-2003	08:51	1.0						
020	tr213192	SER	QC221875	83578	Soil	11-AUG-2003	09:03	5.0						
021	tr213193	MS	QC221873	83578	Soil	11-AUG-2003	09:07	1.0						
022	tr213194	MSD	QC221874	83578	Soil	11-AUG-2003	09:10	1.0						
023	tr213195	SAMPLE	166829-003	83578	Soil	11-AUG-2003	09:16	1.0						
024	tr213196	SAMPLE	166829-004	83578	Soil	11-AUG-2003	09:20	1.0						
025	tr213197	SAMPLE	166829-005	83578	Soil	11-AUG-2003	09:24	1.0						
026	tr213198	CCV				11-AUG-2003	09:38	1.0				6		
027	tr213199	CCB				11-AUG-2003	09:51	1.0						
028	tr213200	SAMPLE	166829-006	83578	Soil	11-AUG-2003	09:56	1.0						
029	tr213201	SAMPLE	166829-007	83578	Soil	11-AUG-2003	10:00	1.0						
030	tr213202	SAMPLE	166829-008	83578	Soil	11-AUG-2003	10:04	1.0						
031	tr213203	SAMPLE	166829-009	83578	Soil	11-AUG-2003	10:08	1.0						
032	tr213204	SAMPLE	166829-010	83578	Soil	11-AUG-2003	10:12	1.0						

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: *March* Date: *8/13*

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 73321562 Instrument: MET07 TJA Trace ICP Begun: 11-AUG-2003

#	Filename Type	Sample Number	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
033	tr213205 SAMPLE	166829-011	83578 Soil	11-AUG-2003 10:16	1.0	40.65041		3:FE=358700
034	tr213206 SAMPLE	166829-012	83578 Soil	11-AUG-2003 10:20	1.0	44.05286		3:FE=290900
035	tr213207 SAMPLE	166829-013	83578 Soil	11-AUG-2003 10:24	1.0	47.84689		5:FE=351200
036	tr213208 SAMPLE	166829-014	83578 Soil	11-AUG-2003 10:27	1.0	49.50495		4:FE=314600
037	tr213209 SAMPLE	166805-001	83578 Soil	11-AUG-2003 10:31	1.0	35.46099	1	2:PB=296000
038	tr213210 CCV			11-AUG-2003 10:44	1.0	1.0	5	
039	tr213211 CCB			11-AUG-2003 10:53	1.0	1.0		
040	tr213212 SAMPLE	166805-001	83578 Soil	11-AUG-2003 10:57	50.0	35.46099		
041	tr213213 SAMPLE	166805-002	83578 Soil	11-AUG-2003 11:01	1.0	35.71429	1	1:PB=57600.0
042	tr213214 SAMPLE	166805-003	83578 Soil	11-AUG-2003 11:05	1.0	37.17472		2:AL=177200
043	tr213215 SAMPLE	166818-001	83578 Soil	11-AUG-2003 11:09	1.0	43.85965	1	4:FE=292800
044	tr213216 SAMPLE	166818-002	83578 Soil	11-AUG-2003 11:13	1.0	42.01681		
045	tr213217 SAMPLE	166818-003	83578 Soil	11-AUG-2003 11:16	1.0	37.17472		2:AL=175200
046	tr213218 SAMPLE	166805-002	83578 Soil	11-AUG-2003 11:21	50.0	35.71429		
047	tr213219 SAMPLE	166818-001	83578 Soil	11-AUG-2003 11:25	50.0	43.85965		
048	tr213220 SAMPLE	166816-001	83578 Miscel	11-AUG-2003 11:28	10.0	44.24779	1	1:CU=57500.0
049	tr213221 ICSAB			11-AUG-2003 11:33	1.0	1.0	4	4:MG=468500
050	tr213222 CCV			11-AUG-2003 11:39	1.0	1.0	6	
051	tr213223 CCB			11-AUG-2003 11:45	1.0	1.0		
052	tr213224 BLANK	QC221638	83521 Soil	11-AUG-2003 11:49	1.0	50.0		
053	tr213225 BS	QC221639	83521 Soil	11-AUG-2003 11:58	1.0	50.0		
054	tr213226 BSD	QC221640	83521 Soil	11-AUG-2003 12:02	1.0	50.0		
055	tr213227 MSS	166716-001	83521 Soil	11-AUG-2003 12:06	1.0	42.19409	2	2:FE=220800
056	tr213229 MS	QC221641	83521 Soil	11-AUG-2003 12:16	1.0	44.84305		2:FE=258800
057	tr213230 MSD	QC221642	83521 Soil	11-AUG-2003 12:19	1.0	42.01681		2:FE=272100
058	tr213231 SER	QC221643	83521 Soil	11-AUG-2003 12:23	5.0	42.19409		2:FE=302100
059	tr213232 SAMPLE	166731-001	83521 Soil	11-AUG-2003 12:27	1.0	45.66210		2:FE=312600
060	tr213233 SAMPLE	166731-003	83521 Soil	11-AUG-2003 12:31	1.0	40.81633		2:FE=248900
061	tr213234 SAMPLE	166731-005	83521 Soil	11-AUG-2003 12:34	1.0	43.47826		
062	tr213235 CCV			11-AUG-2003 12:41	1.0	1.0	5	
063	tr213236 CCB			11-AUG-2003 12:47	1.0	1.0		
064	tr213237 SAMPLE	166731-007	83521 Soil	11-AUG-2003 12:54	1.0	41.49378		2:FE=225900

Stds used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: M. W. W. Date: 8/15

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 11-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73321562

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds	Used	>LR
065	tr213238	SAMPLE	166731-009	83521	Soil	11-AUG-2003	12:57	1.0	44.24779					2:FE=256300
066	tr213239	SAMPLE	166731-011	83521	Soil	11-AUG-2003	13:01	1.0	44.05286					2:FE=260200
067	tr213240	SAMPLE	166731-013	83521	Soil	11-AUG-2003	13:04	1.0	46.51163					2:FE=264400
068	tr213241	SAMPLE	166581-010	83515	Air	11-AUG-2003	13:10	10.0	600.0240					
069	tr213242	SAMPLE	166716-013	83521	Soil	11-AUG-2003	13:14	1.0	48.78049					1:FE=141100
070	tr213243	BLANK	QC221602	83512	Water	11-AUG-2003	13:17	1.0	1.0					
071	tr213244	BS	QC221603	83512	Water	11-AUG-2003	13:21	1.0	1.0					
072	tr213245	BSD	QC221604	83512	Water	11-AUG-2003	13:24	1.0	1.0					
073	tr213246	MSS	166704-004	83512	Water	11-AUG-2003	13:28	1.0	1.0					
074	tr213247	CCV				11-AUG-2003	13:33	1.0	1.0				6	
075	tr213248	CCB				11-AUG-2003	13:40	1.0	1.0					
076	tr213249	SER	QC221607	83512	Water	11-AUG-2003	13:44	5.0	1.0					
077	tr213250	MS	QC221605	83512	Water	11-AUG-2003	13:48	1.0	1.0					
078	tr213251	MSD	QC221606	83512	Water	11-AUG-2003	13:52	1.0	1.0					
079	tr213252	SAMPLE	166716-009	83512	Water	11-AUG-2003	13:55	1.0	1.0					
080	tr213253	SAMPLE	166721-001	83512	Water	11-AUG-2003	13:59	1.0	1.0					2:CA=272500
081	tr213254	SAMPLE	166731-015	83512	Water	11-AUG-2003	14:02	1.0	1.0					2:CA=418900
082	tr213255	SAMPLE	166731-016	83512	Water	11-AUG-2003	14:06	1.0	1.0					1:CA=198500
083	tr213256	SAMPLE	166731-017	83512	Water	11-AUG-2003	14:09	1.0	1.0					1:CA=194300
084	tr213257	SAMPLE	166731-017	83512	Water	11-AUG-2003	14:22	1.0	1.0				6	
085	tr213258	CCV				11-AUG-2003	14:30	1.0	1.0					
086	tr213259	CCB				11-AUG-2003	14:35	1.0	1.0					
087	tr213260	BLANK	QC221882	83580	Soil	11-AUG-2003	14:41	1.0	50.0					
088	tr213261	BS	QC221883	83580	Soil	11-AUG-2003	14:45	1.0	50.0					
089	tr213262	BSD	QC221884	83580	Soil	11-AUG-2003	14:48	1.0	50.0					
090	tr213263	MSS	166642-001	83580	Soil	11-AUG-2003	14:52	1.0	45.04505	4				4:FE=726400
091	tr213264	MS	QC221885	83580	Soil	11-AUG-2003	14:55	1.0	45.45455					4:MG=742500
092	tr213265	MSD	QC221886	83580	Soil	11-AUG-2003	14:59	1.0	41.49378	2				4:FE=793100
093	tr213266	SAMPLE	166707-002	83580	Soil	11-AUG-2003	15:02	1.0	44.44444					3:FE=351800
094	tr213267	SAMPLE	166707-003	83580	Soil	11-AUG-2003	15:06	1.0	38.91051					2:FE=187500
095	tr213268	SAMPLE	166707-004	83580	Soil	11-AUG-2003	15:09	1.0	35.46099					2:FE=282100
096	tr213269	SER	QC221887	83580	Soil	11-AUG-2003	15:16	5.0	45.04505	1				3:FE=149300

Stds used: 1=03WSI109 2=03WSI149 3=03WSI263 4=03WSI089 5=03WSI150 6=03WSI151

Analyst: *Alvin*

Date: *8/13*

Page 3 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-AUG-2003

TJA Trace ICP

Instrument: MET07

Sequence: 73321562

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stdts	Used	>LR
097	tr213270	CCV				11-AUG-2003	15:20	1.0				5		
098	tr213271	CCB				11-AUG-2003	15:26	1.0						
099	tr213272	MSS	166642-001	83580	Soil	11-AUG-2003	15:30	20.0						
100	tr213273	SAMPLE	166707-005	83580	Soil	11-AUG-2003	15:35	1.0						3:FE=257400
101	tr213274	SAMPLE	166707-008	83580	Soil	11-AUG-2003	15:38	1.0						4:FE=237700
102	tr213275	SAMPLE	166707-009	83580	Soil	11-AUG-2003	15:42	1.0						4:FE=310400
103	tr213276	SAMPLE	166642-002	83580	Soil	11-AUG-2003	15:45	1.0						5:MG=765000
104	tr213277	SAMPLE	166642-003	83580	Soil	11-AUG-2003	15:51	10.0						2:FE=176100
105	tr213278	SAMPLE	166642-004	83580	Soil	11-AUG-2003	15:55	1.0						4:FE=433000
106	tr213279	SAMPLE	166642-005	83580	Soil	11-AUG-2003	15:59	1.0						3:FE=273000
107	tr213280	SAMPLE	166707-012	83580	Soil	11-AUG-2003	16:02	1.0						2:FE=192900
108	tr213281	SAMPLE	166815-001	83580	Miscel	11-AUG-2003	16:06	1.0						2:FE=153500
109	tr213282	CCV				11-AUG-2003	16:13	1.0				5		
110	tr213283	CCB				11-AUG-2003	16:22	1.0						
111	tr213285	ICSAB				11-AUG-2003	16:29	1.0				4		4:MG=439900

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Stdts used: 1=03WS1109 2=03WS1149 3=03WS1263 4=03WS1089 5=03WS1150 6=03WS1151

Analyst: Ne: CW Date: 8/10

REPORTING SUMMARY FOR 166716 METALS Soil

Lab ID	Inst ID	Analyzed	IDF	S B	B A	C U	P B	Z N	
166716-001	MET07	08/11/03 12:06	1.0	+	+	+	+	+	
166716-002	MET07	08/08/03 15:15	1.0	+	+	+	+	+	
166716-003	MET07	08/08/03 15:18	1.0	+	+	+	+	+	
166716-004	MET07	08/08/03 15:22	1.0	+	+	+	+	+	
166716-005	MET07	08/08/03 15:25	1.0	+	+	+	+	+	
166716-006	MET07	08/08/03 15:29	1.0	+	+	+	+	+	
166716-007	MET07	08/08/03 15:32	1.0	+	+	+	+	+	
166716-008	MET07	08/08/03 15:36	1.0	+	+	+	+	+	
166716-010	MET07	08/08/03 15:39	1.0	+	+	+	+	+	
166716-011	MET07	08/08/03 15:45	1.0	+	+	+	+	+	
166716-012	MET07	08/08/03 15:49	1.0	+	+	+	+	+	
166716-013	MET07	08/11/03 13:14	1.0	+	+	+	+	+	
QC221638	MET07	08/11/03 11:49	1.0	+	+	+	+	+	
QC221639	MET07	08/11/03 11:58	1.0	+	+	+	+	+	
QC221640	MET07	08/11/03 12:02	1.0	+	+	+	+	+	
QC221641	MET07	08/11/03 12:16	1.0	+	+	+	+	+	
QC221642	MET07	08/11/03 12:19	1.0	+	+	+	+	+	
QC221643	MET07	08/11/03 12:23	5.0	+	+	+	+	+	

Curtis & Tompkins Laboratories

Sample Preparation Summary

11-AUG-2003 12:24

Batch Number : 83521
Date Extracted: 07-AUG-2003
Extracted by : Patricia V. Vergara
Prep Method : 3050

Analysis : N/A
Bgroud : ICAP
Units : g
Clean-up :

Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	W/V	Init	Units	final	Prep	Clean	pH	Sp 1	Sp 2	Sp 3	Analyses	Comments
166716-001		Treadwell & Rollo	Soil	2.37	g	100	42.1940	1						BA, CU, PB, SB, ZN	mss
166716-002		Treadwell & Rollo	Soil	2.16	g	100	46.2962	1						BA, CU, PB, SB, ZN	
166716-003		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1						BA, CU, PB, SB, ZN	
166716-004		Treadwell & Rollo	Soil	2.26	g	100	44.2477	1						BA, CU, PB, SB, ZN	
166716-005		Treadwell & Rollo	Soil	2.04	g	100	49.0196	1						BA, CU, PB, SB, ZN	
166716-006		Treadwell & Rollo	Soil	2.1	g	100	47.6190	1						BA, CU, PB, SB, ZN	
166716-007		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1						BA, CU, PB, SB, ZN	
166716-008		Treadwell & Rollo	Soil	2.14	g	100	46.7289	1						BA, CU, PB, SB, ZN	
166716-010		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1						BA, CU, PB, SB, ZN	
166716-011		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1						BA, CU, PB, SB, ZN	
166716-012		Treadwell & Rollo	Soil	2.07	g	100	48.3091	1						BA, CU, PB, SB, ZN	
166716-013		Treadwell & Rollo	Soil	2.05	g	100	48.7804	1						BA, CU, PB, SB, ZN	
166731-001		SOMA Environmental Engineering	Soil	2.19	g	100	45.6621	1						T26/ICP	
166731-003		SOMA Environmental Engineering	Soil	2.45	g	100	40.8163	1						T26/ICP	
166731-005		SOMA Environmental Engineering	Soil	2.3	g	100	43.4782	1						T26/ICP	
166731-007		SOMA Environmental Engineering	Soil	2.41	g	100	41.4937	1						T26/ICP	
166731-009		SOMA Environmental Engineering	Soil	2.26	g	100	44.2477	1						T26/ICP	
166731-011		SOMA Environmental Engineering	Soil	2.27	g	100	44.0528	1						T26/ICP	
166731-013		SOMA Environmental Engineering	Soil	2.15	g	100	46.5116	1						T26/ICP	
QC221638	BLANK		Soil	2	g	100	50	1						ICAP	
QC221639	BS		Soil	2	g	100	50	1						ICAP	
QC221640	BSD		Soil	2	g	100	50	1						ICAP	
QC221641	MS	of 166716-001	Soil	2.23	g	100	44.8430	1						ICAP	
QC221642	MSD	of 166716-001	Soil	2.38	g	100	42.0168	1						ICAP	
QC221643	SER	of 166716-001	Soil	2.37	g	100	42.1940	1						ICAP	

Prep Chemist:

Reviewed By:

Date:

Relinquished By:

Received By:

Date:

08/07/03

Batch # 83521

TEMP/M 3050

SAMPLE ID	INITIAL (g)	FINAL (mL)	FILTERED YES/NO	COMMENTS
A 166716 - 001 (MSS)	2.37	100.0	YES	SPIKES
002	2.14			✓ 03SS286 (1.0ML)
003	2.14			✓ 03SS287
004	2.24			
005	2.04			REAGENTS
006	2.10			1:1 HNO3 JTBaker # Y08024/60003
007	2.05			HNO3 JTBaker # Y08024
008	2.14			H2O2 VWR # 42295317
010	2.07			1:1 HCl JTBaker # Y12028/20003
011	2.07			
012	2.07			
013	2.05			
166731 - 001	2.19			
003	2.45			
005	2.30			
007	2.41			
009	2.24			
011	2.27			
013	2.15			
MS-QC221640	0			
MBS 221641				
MBSO 221642				
MS-6716 - 001	2.23			
MBSO-6716 - 001	2.38			

Continued on Page

Read and Understood By

Patricia Vergara

Signed

08/07/03

Date

134

MW

Signed

8/11/03

Date

Method Detection Limit Study for EPA 6010B Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17737
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82356
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209502	73250979059	165835-001	23-JUN-2003 12:58
2	tr209503	73250979060	165835-002	23-JUN-2003 13:02
3	tr209504	73250979061	165835-003	23-JUN-2003 13:05
4	tr209505	73250979062	165835-004	23-JUN-2003 13:09
5	tr209506	73250979063	165835-005	23-JUN-2003 13:12
6	tr209507	73250979064	165835-006	23-JUN-2003 13:16
7	tr209508	73250979065	165835-007	23-JUN-2003 13:19

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Aluminum	1.2500000	2.1550000	2.0240000	1.6780000	1.2240000	1.6000000	1.8020000	2.1175000	1.0	5.0	mg/Kg u
Antimony	0.7500000	0.8500000	0.6900000	0.6100000	0.6850000	0.4310000	0.6300000	0.5900000	0.40	3.0	mg/Kg u
Barium	0.1250000	0.1270000	0.1245000	0.1240000	0.1550000	0.1155000	0.1235000	0.1250000	0.039	0.50	mg/Kg u
Beryllium	0.0250000	0.0770000	0.0735000	0.0780000	0.0830000	0.0765000	0.0820000	0.0880000	0.015	0.10	mg/Kg u
Cadmium	0.0625000	0.0505000	0.0471500	0.0449000	0.0625000	0.0484500	0.0487000	0.0443000	0.019	0.25	mg/Kg u
Calcium	2.5000000	2.0055000	2.0805000	2.1145000	1.9090000	1.7145000	1.7950000	1.7310000	0.52	25	mg/Kg u
Chromium	0.1250000	0.1405000	0.1290000	0.1400000	0.1810000	0.1325000	0.1430000	0.1440000	0.054	0.50	mg/Kg u
Cobalt	0.2500000	0.1970000	0.1720000	0.1875000	0.2400000	0.1750000	0.1850000	0.1915000	0.071	1.0	mg/Kg u
Copper	0.1250000	0.1200000	0.1135000	0.1310000	0.1260000	0.1025000	0.1230000	0.1070000	0.033	0.50	mg/Kg u
Magnesium	2.5000000	2.3815000	2.3365000	2.3560000	1.9845000	2.2750000	2.4335000	2.4000000	0.48	25	mg/Kg u
Manganese	0.1250000	0.1035000	0.1030000	0.1110000	0.0975000	0.0960000	0.1050000	0.1030000	0.016	0.50	mg/Kg u
Molybdenum	0.2500000	0.2495000	0.2920000	0.2740000	0.2725000	0.2680000	0.2525000	0.2710000	0.045	1.0	mg/Kg u
Vanadium	0.1250000	0.1260000	0.1290000	0.1100000	0.1700000	0.1120000	0.1140000	0.1125000	0.067	0.50	mg/Kg u
Zinc	0.2500000	0.4650000	0.3540000	0.4020000	0.4300000	0.3440000	0.3780000	0.4135000	0.13	1.0	mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17738
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82358
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209528	73250979085	165835-008	23-JUN-2003 15:09
2	tr209529	73250979086	165835-009	23-JUN-2003 15:13
3	tr209530	73250979087	165835-010	23-JUN-2003 15:16
4	tr209531	73250979088	165835-011	23-JUN-2003 15:20
5	tr209532	73250979089	165835-012	23-JUN-2003 15:23
6	tr209533	73250979090	165835-013	23-JUN-2003 15:27
7	tr209534	73250979091	165835-014	23-JUN-2003 15:30

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL	Units	Flags
Iron		2.500000	2.7405000	2.9320000	3.2630000	2.5855000	2.9385000	3.0485000	3.2595000	0.79	5.0	mg/Kg u
Lead		0.0750000	0.1290000	0.1400000	0.1440000	0.1320000	0.1150000	0.0975000	0.1325000	0.050	0.15	mg/Kg u
Silver		0.1250000	0.1100000	0.1010000	0.0935000	0.1200000	0.1060000	0.1130000	0.1030000	0.027	0.25	mg/Kg u

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17740
Study Date: 23-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Segnum	Samplenum	Analyzed
1	tr209548	73250979105	165835-022	23-JUN-2003 16:38
2	tr209549	73250979106	165835-023	23-JUN-2003 16:41
3	tr209550	73250979107	165835-024	23-JUN-2003 16:45
4	tr209551	73250979108	165835-025	23-JUN-2003 16:51
5	tr209552	73250979109	165835-026	23-JUN-2003 16:58
6	tr209553	73250979110	165835-027	23-JUN-2003 17:05
7	tr209554	73250979111	165835-028	23-JUN-2003 17:11

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Arsenic	0.7500000	0.6450000	0.6600000	0.6450000	0.6350000	0.6050000	0.6400000	0.7300000	0.12	0.25	mg/kg u
Nickel	3.0000000	2.6350000	2.6150000	2.6300000	2.6300000	2.6500000	2.6300000	2.9000000	0.32	1.0	mg/kg u
Thallium	0.7500000	0.5600000	0.5200000	0.5100000	0.5900000	0.4515000	0.4725000	0.5350000	0.15	0.25	mg/kg Bu

Method Detection Limit Study for EPA 6010B
Curtis & Tompkins Laboratories

Instrument: MET07
Matrix : Soil
Partition : All

Study # : 17741
Study Date: 24-JUN-2003
Effective : 25-JUN-2003

Batchnum : 82362
Reviewer : HDD

Study consists of these runs:

#	Filename	Seqnum	Samplenum	Analyzed
1	tr209613	73252428055	165835-022	24-JUN-2003 12:35
2	tr209614	73252428056	165835-023	24-JUN-2003 12:38
3	tr209615	73252428057	165835-024	24-JUN-2003 12:42
4	tr209616	73252428058	165835-025	24-JUN-2003 12:45
5	tr209617	73252428059	165835-026	24-JUN-2003 12:49
6	tr209618	73252428060	165835-027	24-JUN-2003 12:52
7	tr209620	73252428061	165835-028	24-JUN-2003 12:59

Analyte	Spikeconc	1	2	3	4	5	6	7	MDL	Lowest RL units	Flags
Selenium	0.7500000	0.6300000	0.6150000	0.6400000	0.5500000	0.5100000	0.5150000	0.5550000	0.17	0.25	mg/Kg Bu

MOISTURE DATA

Percent Moisture Summary Report

Batch: 83463
 Date: 08/06/03
 Method: CLP SOW 390
 Analyst: KED

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
166716-001	15.5511	22.2468	21.7719	93	7
166716-002	4.3093	10.9749	10.2145	89	11
166716-003	15.9630	24.9504	23.9837	89	11
166716-004	15.0568	21.0824	21.0204	99	1
166716-005	15.4622	21.1928	21.1235	99	1
166716-006	15.4607	22.4175	22.3252	99	1
166716-007	15.8902	21.5369	21.4876	99	1
166716-008	15.3254	21.8926	21.8211	99	1
166716-010	15.2899	21.9017	21.7671	98	2
166716-011	15.3488	22.3619	22.2048	98	2
166716-012	15.4815	21.0497	20.9577	98	2
166716-013	15.1077	21.9223	21.8099	98	2
QC221413	15.4086	22.8142	22.1447	91	9
of 166716-001			RPD:	2.1%	24.1%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 83463
 Date Started: 06-AUG-2003
 Batched by: Kirsten Dutcher

Analysis : MOISTURE
 Bgroup : N/A
 Department: Metals

Sample	Type	Client	Matrix	Analyses	Due Date
166716-001		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-002		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-003		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-004		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-005		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-006		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-007		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-008		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-010		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-011		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-012		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
166716-013		Treadwell & Rollo	Soil	MOISTURE	11-AUG-2003
QC221413	SDUP	of 166716-001	Soil	MOISTURE	

8/5/03

#

83463

Oven temp: 104°C

time in: 4:55pm

time out: 9:00 A.M.

on: 8/6/03

Sample	dish #	tare wt	init wt	fin wt	comment
Blank	T	15.1908	-	15.1972	
166716-1	21	15.5511	22.2408	21.7719	
-1 cup	101	15.4086	22.8142	22.1247	
-2	88	4.3093	10.9749	10.2145	
-3	5D	15.9630	24.9504	23.9837	
-4	1975	15.0568	21.0824	21.0204	
-5	C	15.4622	21.1928	21.1235	
-6	19	15.4607	22.4175	22.3252	
-7	20D	15.8902	21.5369	21.4876	
-8	72	15.3254	21.8926	21.8211	
-10	35	15.2899	21.9017	21.7671	
-11	70D	15.3488	22.3619	22.2048	
-12	24	15.4815	21.0497	20.9577	
-13	3C	15.1077	21.9223	21.8099	

Continued on Page

Read and Understood By



Signed

8/5/03

Date

142



Signed

8/6/03

Date



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 167188

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.07
Location: Presidio - Firing Ranges

<u>Sample ID</u>	<u>Lab ID</u>
CHPSB06 [1]	167188-001
CHPSB07 [1]	167188-002
CHPSB05 [1]	167188-003
CHPSB02 [0.3]	167188-004
CHPSB03 [0.3]	167188-005
CHPSB07 [2]	167188-006
CHPSB07 [3]	167188-007
BAPSB03R [5.5]	167188-008
BAPSB13 [0.3]	167188-009
BAPSB18 [0.3]	167188-010
LCBSB24 [1]	167188-011
LCBSB36 [0.3]	167188-012
LCBSB36 [1]	167188-013
LCPSB18 [0.3]	167188-014
LCPSB27 [1]	167188-015
LCPSB37 [1]	167188-016
MGBSB19 [0.3]	167188-017

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

9/10/03

Signature: _____

Project Manager

Date: _____

9/10/03

Laboratory Number: **167188**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Firing Ranges**

Order Date: **08/27/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for seventeen soil samples received from the above referenced project. The samples were received cold and intact.

Metals: The matrix spike recoveries of sample CHPSB06[1] (167188-001) were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The associated blank spike recoveries were acceptable. No other analytical problems were encountered.

Chain of Custody

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: * Client Request: By: R. Richards Date/Time: 8-27-03 1200 Initials: SES
 Login Review _____ Data Review _____ Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Due date
167188-001	166624-017	CHPSB06 [1]	Soil	Add	TCLP Pb, WET Pb SIEVE		9/2
-002	-006	CHPSB07 [1]			TCLP Pb, WET Pb		
-003	-016	CHPSB 05 [1]			TCLP Pb, WET Pb SIEVE		
-004	-041	CHPSB02 [0.3]			WET Pb		
-005	-039	CHPSB03 [0.3]			WET Pb SIEVE		
-006	-007	CHPSB07 [2]			WET Pb		
-007	-009	CHPSB07 [3]			"		
-008	166682-001	BAPSB03R [5.5]			WET Pb, SIEVE		
-009	166566-004	BAPSB13 [0.3]			SIEVE		
-010	166599-001	BAPSB18 [0.3]					
-011	166535-045	LCBSB24 [1]					
-012	166645-021	LCBSB36 [0.3]					
-013	-022	LCBSB36 [1]					
-014	166535-020	LCPSB18 [0.3]					
-015	-024	LCPSB27 [1]					
-016	-007	LCPSB37 [1]					
-017	166460-005 MGBSB19 SES	MGBSB19 [0.3]					

Subject: T&R 2893.07 - additional analysis
From: "Rhonda Richards" <rrrichards@treadwellrollo.com>
Date: Wed, 27 Aug 2003 10:34:34 -0700
To: <steve@ctberk.com>

Hi Steve,
For the additional tests, run the soluble lead on a pre-sieved basis. Also, note the change I made to the "Sieving" list from my original email (see below, I swapped out one sample).

Thank you,
Rhonda Richards
Senior Staff Scientist
Treadwell & Rollo
cell (925)997-4936
email: rrrichards@treadwellrollo.com

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Rhonda Richards wrote:

-----Original Message-----

From: Rhonda Richards [<mailto:rrrichards@treadwellrollo.com>] On Behalf Of Rhonda Richards
Sent: Monday, August 25, 2003 3:08 PM
To: 'steve@ctberk.com'
Subject: T&R 2893.07 - additional analysis

Hi Steve-

We would like to have solubility (TCLP or WET) testing performed on a list of samples, and sieving done on another set of samples, as follows:

Soluble Lead by TCLP:

CHPSB06[1], CHPSB07[1], and CHPSB05[1]
166624-017 -006 -016

Soluble Lead by WET test:

CHPSB02[0.3] 166624-041
CHPSB03[0.3] -039
CHPSB05[1] -016
CHPSB06[1] -017
CHPSB07[1] -006
CHPSB07[2] -007
CHPSB07[3] -009
BAPSB03R[5.5] 166682-001

SIEVING

BAPSB03R[5.5]	166682-001
BAPSB13[0.3]	166566-004
BAPSB18[0.3]	166599-001
CHPSB05[1]	166624-016
CHPSB06[1]	-017

ADD: CHPSB03[0.3] THEN REMOVE FROM LIST: CHPSB07[1], this sample was sieved previously 166624-039

LCBSB24[1]	166535-045
LCBSB36[0.3]	166645-021
LCBSB36[1]	-022
LCPSB18[0.3]	166535-020
LCPSB27[1]	-024
LCPSB37[1]	-007
MGBSB19[0.3]	166460-005

Please call me if you have any questions.

Thanks,

Rhonda Richards
Senior Staff Scientist
Treadwell & Rollo, Inc. - Orinda
Phone (925)253-4980 x.421
Fax (925)253-4985

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METALS

Lead			
Lab #:	167188	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	07/29/03
Matrix:	TCLP Leachate	Received:	07/30/03
Units:	ug/L	Prepared:	08/28/03
Batch#:	84065	Analyzed:	08/29/03

Field ID	Type	Lab ID	Result	RL	Diln Fac
CHPSB06[1]	SAMPLE	167188-001	22,000	300	1.000
CHPSB07[1]	SAMPLE	167188-002	100,000	1,500	5.000
CHPSB05[1]	SAMPLE	167188-003	6,100	300	1.000
	BLANK	QC223887	ND	300	1.000

Lead			
Lab #:	167188	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	EPA 3010
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	84065
Field ID:	CHPSB06[1]	Sampled:	07/29/03
MSS Lab ID:	167188-001	Received:	07/30/03
Matrix:	TCLP Leachate	Prepared:	08/28/03
Units:	ug/L	Analyzed:	08/29/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC223888		2,000	1,887		94	68-123		
BSD	QC223889		2,000	1,997		100	68-123	6	27
SDUP	QC223890	22,380		21,810	300			3	43
SSPIKE	QC223891	22,380	2,000	23,710		67	NM 33-145		

NM= Not Meaningful

RL= Reporting Limit

RPD= Relative Percent Difference

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

```

stid   : MET01          Instid   : MET01
qnum   : 13347646009    Seqnum   : 13347646010
lename : icp160651      Filename : icp160652
DF     : 1.0            IDF      : 5.0
DF     : 1.0            PDF      : 1.0
n type : MSS            Run type  : SER
mplenum: 167188-001     Samplenum: QC224010
atrix   : TCLP Leachate Matrix   : TCLP Leachate
tchnum  : 84065         Batchnum  : 84065
j       : 29-AUG-2003 10:39 Inj    : 29-AUG-2003 10:45
its     : ug/L
  
```

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	70.4	60.0	ND	300	--	10	u
Arsenic	ND	5.00	ND	25.0	--	10	u
Barium	*** usable MSS data not found ***						
Beryllium	ND	2.00	ND	10.0	--	10	u
Cadmium	ND	5.00	ND	25.0	--	10	u
Calcium	40500	500	41500	2500	2	10	u
Chromium	ND	10.0	ND	50.0	--	10	u
Cobalt	ND	20.0	ND	100	--	10	u
Copper	70.1	10.0	77.3	50.0	--	10	u
Iron	751	100	786	500	--	10	u
Lead	22400	3.00	23000	15.0	3	10	u
Magnesium	8910	500	9520	2500	7	10	u
Manganese	195	10.0	202	50.0	4	10	u
Molybdenum	ND	20.0	ND	100	--	10	u
Nickel	37.0	20.0	ND	100	--	10	u
Potassium	*** usable MSS data not found ***						
Selenium	12.8	5.00	415	25.0	--	10	ab*
Silver	ND	5.00	ND	25.0	--	10	u
Sodium	*** usable MSS data not found ***						
Thallium	ND	5.00	ND	25.0	--	10	u
Vanadium	ND	10.0	ND	50.0	--	10	u
Zinc	*** usable MSS data not found ***						
Boron	*** usable MSS data not found ***						
Phosphorus	*** usable MSS data not found ***						
Silicon	*** usable MSS data not found ***						
Sulfide	*** usable MSS data not found ***						
Van	*** usable MSS data not found ***						
Titanium	*** usable MSS data not found ***						

Method: 6010B Standard: blank
 Run Time: 08/29/03 09:37:06

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0003	.0062	.0001	.0010	.0006	.0010	.0000
SDev	.0000	.0017	.0002	.0002	.0008	.0010	.0008
%RSD	.0626	26.88	141.4	20.26	141.4	101.0	319500.
#1	.0003	.0074	.0003	.0009	.0012	.0003	-.0006
#2	.0003	.0050	.0000	.0012	.0000	.0018	.0006
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0013	.0006	.0003	-.0012	-.0015	.0001	.0006
SDev	.0006	.0017	.0013	.0017	.0004	.0002	.0017
%RSD	47.08	282.7	423.8	141.4	28.22	141.4	283.0
#1	.0018	-.0006	-.0006	.0000	-.0018	.0000	.0018
#2	.0009	.0018	.0012	-.0024	-.0012	.0003	-.0006
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0012	.0004	.1754	.0010	-.0021	.0000
SDev	.0004	.0000	.0010	.0049	.0010	.0021	.0000
%RSD	141.4	.0626	235.6	2.798	101.0	101.0	.0000
#1	-.0006	.0012	-.0003	.1720	.0018	-.0035	.0000
#2	.0000	.0012	.0012	.1789	.0003	-.0006	.0000
Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	
Avge	.0145	.0131	-.0018	.0056	.0003	.0003	
SDev	.0029	.0010	.0042	.0000	.0004	.0004	
%RSD	20.26	8.007	235.8	.0626	141.4	141.4	
#1	.0124	.0124	-.0047	.0056	.0006	.0000	
#2	.0165	.0139	.0012	.0056	.0000	.0006	

Method: 6010B Standard: cs hi
Run Time: 08/29/03 09:39:47

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.4513	.8251	11.07	.2753	2.831	.8804	.6767
SDev	.0005	.0118	.00	.0000	.008	.0011	.0013
%RSD	.1013	1.432	.0218	.0035	.2896	.1261	.1853
#1	.4516	.8335	11.07	.2753	2.825	.8796	.6758
#2	.4509	.8168	11.06	.2753	2.837	.8812	.6776
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.153	.2619	2.021	1.659	.4750	.1523	.4802
SDev	.002	.0014	.004	.007	.0029	.0011	.0063
%RSD	.1353	.5172	.2199	.4398	.6100	.7436	1.317
#1	1.152	.2609	2.018	1.664	.4730	.1515	.4757
#2	1.154	.2628	2.024	1.654	.4771	.1531	.4847
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.6863	1.570	2.952	35.75	5.170	7.883	1.259
SDev	.0019	.005	.006	.09	.018	.014	.003
%RSD	.2714	.3258	.2034	.2625	.3539	.1834	.2626
#1	.6850	1.566	2.947	35.68	5.157	7.873	1.256
#2	.6876	1.574	2.956	35.81	5.183	7.893	1.261
Elem	K_7664	Na5889					
Avge	.7378	6.962					
SDev	.0005	.007					
%RSD	.0666	.1042					
#1	.7382	6.957					
#2	.7375	6.967					

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	22250.7	-6.56654	08/29/03 09:39:47
As1890	189.042	Multiple	Standards	12211.0	-75.6706	08/29/03 09:39:47
Ba4934	493.409	Multiple	Standards	1807.40	-.266578	08/29/03 09:39:47
Be3130	313.042	Multiple	Standards	1895.01	-1.95749	08/29/03 09:39:47
Cd2288	228.802	Multiple	Standards	3544.88	-2.09137	08/29/03 09:39:47
Cr2677	267.716	Multiple	Standards	2277.86	-2.35355	08/29/03 09:39:47
Co2286	228.616	Multiple	Standards	7434.55	-.001943	08/29/03 09:39:47
Cu3247	324.754	Multiple	Standards	2174.18	-2.88693	08/29/03 09:39:47
Pb2203	220.353	Multiple	Standards	38465.6	-22.7237	08/29/03 09:39:47
Mo2020	202.030	Multiple	Standards	4950.75	-1.46298	08/29/03 09:39:47
Ni2316	231.604	Multiple	Standards	3011.75	3.55684	08/29/03 09:39:47
Se1960	196.026	Multiple	Standards	20940.8	30.8971	08/29/03 09:39:47
Ag3280	328.068	Multiple	Standards	6426.90	-.948760	08/29/03 09:39:47
Tl1908	190.864	Multiple	Standards	20859.4	-12.3010	08/29/03 09:39:47
V_2924	292.402	Multiple	Standards	7148.66	2.10875	08/29/03 09:39:47
Zn2138	213.856	Multiple	Standards	3179.29	-3.75303	08/29/03 09:39:47
Al3961	396.153	Multiple	Standards	6828.59	-3.02507	08/29/03 09:39:47
Ca3179	317.933	Multiple	Standards	1405.61	-246.612	08/29/03 09:39:47
Fe2599	259.940	Multiple	Standards	1934.51	-1.99754	08/29/03 09:39:47
Mg2790	279.079	Multiple	Standards	6312.40	13.0361	08/29/03 09:39:47
Mn2576	257.610	Multiple	Standards	3972.06	-.000000	08/29/03 09:39:47
K_7664	766.491	Multiple	Standards	69122.7	-999.624	08/29/03 09:39:47
Na5889	588.995	Multiple	Standards	7195.05	-94.4925	08/29/03 09:39:47
Sn1899	189.989	STD4	blank	5626.74	9.95589	08/29/03 09:39:47
B_2496	249.678	STD4	blank	6835.49	-38.3279	08/29/03 09:39:47
Ti3349	334.941	STD4	blank	1359.27	-.400966	08/29/03 09:39:47
P_1782	178.287	STD4	blank	15e6	12071.7	*08/29/03 09:39:47
S_1820	182.040	STD4	STD1-Blank	104.880	-7.69820	08/29/03 09:39:47
Si2881	288.158	STD4	STD1-Blank	239.752	-67.1066	08/29/03 09:39:47

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Stdid : MET01
Snum : 13347646001

Run Name :
Filename : icp160643

Injected : 29-AUG-2003 10:06
Caltype :

Standards: 03WS1092

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	20000.00	19800.00	ug/L	-1	5	
Antimony	10000.00	9889.000	ug/L	-1	5	
Arsenic	10000.00	10290.00	ug/L	3	5	
Barium	20000.00	20060.00	ug/L	0	5	
Beryllium	500.0000	510.6000	ug/L	2	5	
Cadmium	10000.00	10150.00	ug/L	2	5	
Calcium	50000.00	51100.00	ug/L	2	5	
Chromium	2000.000	2002.000	ug/L	0	5	
Cobalt	5000.000	5024.000	ug/L	0	5	
Copper	2500.000	2491.000	ug/L	0	5	
Iron	10000.00	10150.00	ug/L	2	5	
Lead	10000.00	10190.00	ug/L	2	5	
Magnesium	50000.00	49560.00	ug/L	-1	5	
Manganese	5000.000	5030.000	ug/L	1	5	
Molybdenum	10000.00	10130.00	ug/L	1	5	
Nickel	5000.000	5095.000	ug/L	2	5	
Potassium	50000.00	48690.00	ug/L	-3	5	
Selenium	10000.00	9949.000	ug/L	-1	5	
Silver	1000.000	1002.000	ug/L	0	5	
Sodium	50000.00	50150.00	ug/L	0	5	
Thallium	10000.00	10260.00	ug/L	3	5	
Titanium	5000.000	5053.000	ug/L	1	5	
Zinc	5000.000	5107.000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Eqnum : 13347646002

Run Name :
Filename : icp160644

Injected : 29-AUG-2003 10:10
Calttype :

Standards: 03WS1094

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	975.2000	ug/L	-2	10	
Antimony	2000.000	1988.000	ug/L	-1	10	
Arsenic	2000.000	1909.000	ug/L	-5	10	
Barium	1000.000	1023.000	ug/L	2	10	
Beryllium	2000.000	1967.000	ug/L	-2	10	
Boron	1000.000	1076.000	ug/L	8	10	
Cadmium	2000.000	2045.000	ug/L	2	10	
Calcium	2000.000	2069.000	ug/L	3	10	
Chromium	2000.000	2026.000	ug/L	1	10	
Cobalt	2000.000	2079.000	ug/L	4	10	
Copper	2000.000	2010.000	ug/L	1	10	
Iron	2000.000	2006.000	ug/L	0	10	
Lead	2000.000	1973.000	ug/L	-1	10	
Magnesium	2000.000	2039.000	ug/L	2	10	
Manganese	2000.000	2037.000	ug/L	2	10	
Molybdenum	2000.000	2054.000	ug/L	3	10	
Nickel	2000.000	2054.000	ug/L	3	10	
Potassium	10000.00	9795.000	ug/L	-2	10	
Selenium	2000.000	2009.000	ug/L	0	10	
Silver	1000.000	1008.000	ug/L	1	10	
Sodium	10000.00	10050.00	ug/L	1	10	
Thallium	2000.000	2108.000	ug/L	5	10	
Titanium	2000.000	2262.000	ug/L	13	10	v ***
Vanadium	2000.000	2032.000	ug/L	2	10	
Zinc	2000.000	2060.000	ug/L	3	10	

no 2nd source validation
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LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Std : MET01
Qnum : 13347646004

Run Name :
Filename : icp160646

Injected : 29-AUG-2003 10:17
Caltpe :

Standards: 03WS1227

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	109.7000	ug/L	10	50		
Antimony	60.00000	59.82000	ug/L	0	50		
Arsenic	500.0000	461.9000	ug/L	-8	50		
Barium	10.00000	11.33000	ug/L	13	50		
Beryllium	2.000000	2.520000	ug/L	26	50		
Boron	20.00000	79.01000	ug/L	295	50	#	***
Cadmium	5.000000	5.027000	ug/L	1	50		
Calcium	500.0000	514.4000	ug/L	3	50		
Chromium	10.00000	8.143000	ug/L	-19	50		
Cobalt	20.00000	22.14000	ug/L	11	50		
Copper	10.00000	11.06000	ug/L	11	50		
Cron	100.0000	104.5000	ug/L	5	50		
Lead	300.0000	269.7000	ug/L	-10	50		
Magnesium	500.0000	528.0000	ug/L	6	50		
Manganese	10.00000	11.86000	ug/L	19	50		
Molybdenum	20.00000	25.27000	ug/L	26	50		
Nickel	20.00000	21.23000	ug/L	6	50		
Phosphorus	100.0000	18930.00	ug/L	18830	50	#	***
Potassium	500.0000	513.7000	ug/L	3	50		
Selenium	500.0000	565.5000	ug/L	13	50		
Silver	5.000000	5.825000	ug/L	17	50		
Sodium	500.0000	546.5000	ug/L	9	50		
Thallium	500.0000	473.3000	ug/L	-5	50		
Tin	40.00000	41.03000	ug/L	3	50		
Titanium	10.00000	11.16000	ug/L	12	50		
Vanadium	10.00000	12.98000	ug/L	30	50		
Zinc	20.00000	22.32000	ug/L	12	50		

ICAL check standard failure
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Stdid : MET01
Snum : 13347646014

Run Name :
Filename : icp160656

Injected : 29-AUG-2003 11:12
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		1000.000	954.6000	ug/L	-5	10	
Antimony		2000.000	1937.000	ug/L	-3	10	
Arsenic		2000.000	1884.000	ug/L	-6	10	
Barium		1000.000	1018.000	ug/L	2	10	
Beryllium		2000.000	2021.000	ug/L	1	10	
Boron		1000.000	1057.000	ug/L	6	10	
Cadmium		2000.000	1970.000	ug/L	-2	10	
Calcium		2000.000	1997.000	ug/L	0	10	
Chromium		2000.000	1964.000	ug/L	-2	10	
Cobalt		2000.000	2021.000	ug/L	1	10	
Copper		2000.000	2039.000	ug/L	2	10	
Iron		2000.000	1980.000	ug/L	-1	10	
Lead		2000.000	1994.000	ug/L	0	10	
Magnesium		2000.000	1978.000	ug/L	-1	10	
Manganese		2000.000	2000.000	ug/L	0	10	
Molybdenum		2000.000	2037.000	ug/L	2	10	
Nickel		2000.000	2048.000	ug/L	2	10	
Potassium		10000.00	9498.000	ug/L	-5	10	
Selenium		2000.000	1879.000	ug/L	-6	10	
Silver		1000.000	984.3000	ug/L	-2	10	
Sodium		10000.00	10760.00	ug/L	8	10	
Thallium		2000.000	2053.000	ug/L	3	10	
Titanium		2000.000	2218.000	ug/L	11	10	1 ***
Vanadium		2000.000	2027.000	ug/L	1	10	
Zinc		2000.000	2011.000	ug/L	1	10	

CCV drift out
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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Stdid : MET01
Seqnum : 13347646026

Run Name :
Filename : icp160668

Injected : 29-AUG-2003 12:00
Caltpe :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	974.4000	ug/L	-3		10	
Antimony		2000.000	1906.000	ug/L	-5		10	
Arsenic		2000.000	2017.000	ug/L	1		10	
Barium		1000.000	1010.000	ug/L	1		10	
Beryllium		2000.000	1987.000	ug/L	-1		10	
Boron		1000.000	1051.000	ug/L	5		10	
Cadmium		2000.000	1979.000	ug/L	-1		10	
Calcium		2000.000	2020.000	ug/L	1		10	
Chromium		2000.000	1955.000	ug/L	-2		10	
Cobalt		2000.000	2013.000	ug/L	1		10	
Copper		2000.000	2016.000	ug/L	1		10	
Iron		2000.000	1954.000	ug/L	-2		10	
Lead		2000.000	1968.000	ug/L	-2		10	
Magnesium		2000.000	1990.000	ug/L	-1		10	
Manganese		2000.000	1986.000	ug/L	-1		10	
Molybdenum		2000.000	2036.000	ug/L	2		10	
Nickel		2000.000	2047.000	ug/L	2		10	
Potassium		10000.00	9444.000	ug/L	-6		10	
Selenium		2000.000	1876.000	ug/L	-6		10	
Silver		1000.000	1009.000	ug/L	1		10	
Sodium		10000.00	10640.00	ug/L	6		10	
Thallium		2000.000	2134.000	ug/L	7		10	
Titanium		2000.000	2167.000	ug/L	8		10	
Vanadium		2000.000	2032.000	ug/L	2		10	
Zinc		2000.000	2024.000	ug/L	1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
 Sample Num: 13347646003
 Filename: icp160645

TJA ICP
 Run Name:
 Blank Type: ICB

Injected: 29-AUG-2003 10:13

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[5.7460]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[0.7821]	10.00000	ug/L	<RL	
Beryllium	[0.2267]	2.000000	ug/L	<RL	
Boron	[3.3440]	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[2.9540]	500.0000	ug/L	<RL	
Chromium	[1.2760]	10.00000	ug/L	<RL	
Cobalt	[6.4670]	20.00000	ug/L	<RL	
Copper	[0.2663]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	[10.550]	500.0000	ug/L	<RL	
Manganese	[1.7330]	10.00000	ug/L	<RL	
Molybdenum	[10.740]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	16460.00	100.0000	ug/L	<RL	d ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	[34.360]	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	[19.820]	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[4.2990]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

blank contam/missing
 Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Runnum: 13347646015
Filename: icp160657

TJA ICP
Run Name:
Blank Type: CCB

Injected: 29-AUG-2003 11:14

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	[1.5460]	100.0000	ug/L	<RL	
Antimony	[8.7260]	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[0.7306]	10.00000	ug/L	<RL	
Beryllium	[0.9072]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	[1.0130]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[1.2740]	10.00000	ug/L	<RL	
Cobalt	[4.1300]	20.00000	ug/L	<RL	
Copper	[0.7088]	10.00000	ug/L	<RL	
Iron	[1.2060]	100.0000	ug/L	<RL	
Lead	[14.890]	300.0000	ug/L	<RL	
Magnesium	[7.9850]	500.0000	ug/L	<RL	
Manganese	[1.6530]	10.00000	ug/L	<RL	
Molybdenum	[8.0610]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	14150.00	100.0000	ug/L	<RL	d ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	[59.880]	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Sodium	[32.550]	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	[1.4800]	10.00000	ug/L	<RL	
Vanadium	[4.1560]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

Blank contam/missing

Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13347646027
Filename: icp160669

TJA ICP
Run Name:
Blank Type: CCB

Injected: 29-AUG-2003 12:03

analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[4.3980]	100.0000	ug/L	<RL	
Antimony	[5.3930]	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[0.7152]	10.00000	ug/L	<RL	
Beryllium	[0.0972]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[2.1610]	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	[1.2500]	10.00000	ug/L	<RL	
Iron	[2.2070]	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	[14.800]	500.0000	ug/L	<RL	
Manganese	[1.6210]	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	12070.00	100.0000	ug/L	<RL	d ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	[62.200]	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	[16.840]	40.00000	ug/L	<RL	
Titanium	[0.7082]	10.00000	ug/L	<RL	
Vanadium	[1.1240]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

blank contam/missing

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INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

istid : MET01
egnum : 13347646005

Run Name :
Filename : icp160647

Injected : 29-AUG-2003 10:26
Caltype :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	552200.0	ug/L	10			
Antimony	2000.000	2024.000	ug/L	1		20	
Arsenic	2000.000	2153.000	ug/L	8		20	
Barium	500.0000	496.0000	ug/L	-1		20	
Beryllium	500.0000	494.1000	ug/L	-1		20	
Cadmium	1000.000	1025.000	ug/L	3		20	
Calcium	500000.0	516300.0	ug/L	3			
Chromium	500.0000	494.2000	ug/L	-1		20	
Cobalt	500.0000	508.4000	ug/L	2		20	
Copper	500.0000	515.4000	ug/L	3		20	
Iron	200000.0	182800.0	ug/L	-9			
Lead	1000.000	1195.000	ug/L	20		20	
Magnesium	500000.0	495800.0	ug/L	-1			
Manganese	500.0000	511.7000	ug/L	2		20	
Molybdenum	500.0000	483.9000	ug/L	-3		20	
Nickel	1000.000	939.7000	ug/L	-6		20	
Selenium	2000.000	2345.000	ug/L	17		20	
Silver	1000.000	1080.000	ug/L	8		20	
Thallium	2000.000	1949.000	ug/L	-3		20	
Titanium	2000.000	2269.000	ug/L	13		20	
Vanadium	500.0000	484.3000	ug/L	-3		20	
Zinc	1000.000	1030.000	ug/L	3		20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Stdid : MET01
Qnum : 13347646025

Run Name :
Filename : icp160667

Injected : 29-AUG-2003 11:53
Caltype :

Standards: 03WS1093

alyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	547500.0	ug/L	10		
Antimony	2000.000	1978.000	ug/L	-1	20	
Arsenic	2000.000	2124.000	ug/L	6	20	
Barium	500.0000	488.3000	ug/L	-2	20	
Beryllium	500.0000	495.3000	ug/L	-1	20	
Cadmium	1000.000	996.0000	ug/L	0	20	
Calcium	500000.0	517800.0	ug/L	4		
Chromium	500.0000	475.4000	ug/L	-5	20	
Cobalt	500.0000	497.4000	ug/L	-1	20	
Copper	500.0000	507.9000	ug/L	2	20	
Iron	200000.0	177800.0	ug/L	-11		
Lead	1000.000	1081.000	ug/L	8	20	
Magnesium	500000.0	485200.0	ug/L	-3		
Manganese	500.0000	503.9000	ug/L	1	20	
Molybdenum	500.0000	470.3000	ug/L	-6	20	
Nickel	1000.000	944.5000	ug/L	-6	20	
Selenium	2000.000	2115.000	ug/L	6	20	
Silver	1000.000	1072.000	ug/L	7	20	
Sodium	2000.000	2060.000	ug/L	3	20	
Titanium	2000.000	2179.000	ug/L	9	20	
Zinc	500.0000	488.4000	ug/L	-2	20	
	1000.000	1014.000	ug/L	1	20	

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 13347646 Instrument: MET01

TJA ICP

Begun: 29-AUG-2003

#	Filename Type	Sample Num	Batch Matrix	Analyzed	IDF	PDF	IOC	SPK	UL	Stds Used	>LR
001	icp16064 CS			29-AUG-2003 10:06	1.0	1.0	1			1	1:P=27990.0
002	icp16064 ICV			29-AUG-2003 10:10	1.0	1.0	1			2	1:P=28000.0
003	icp16064 ICB			29-AUG-2003 10:13	1.0	1.0	1			3	
004	icp16064 CRI			29-AUG-2003 10:17	1.0	1.0	2			4	5:AL=552200
005	icp16064 ICSAB			29-AUG-2003 10:26	1.0	1.0	8				1:NA=1.80E+7
006	icp16064 BLANK	QC223887	84065 TC1P L	29-AUG-2003 10:31	1.0	1.0	3				
007	icp16064 BS	QC223888	84065 TC1P L	29-AUG-2003 10:33	1.0	1.0	3				
008	icp16065 BSD	QC223889	84065 TC1P L	29-AUG-2003 10:35	1.0	1.0	11				1:NA=1.80E+7
009	icp16065 MSS	167188-001	84065 TC1P L	29-AUG-2003 10:39	1.0	1.0	1				1:NA=650600
010	icp16065 SER	QC224010	84065 TC1P L	29-AUG-2003 10:45	5.0	1.0	1				1:NA=1.70E+7
011	icp16065 SDUP	QC223890	84065 TC1P L	29-AUG-2003 11:01	1.0	1.0	1				2:NA=1.70E+7
012	icp16065 SSPIKE	QC223891	84065 TC1P L	29-AUG-2003 11:03	1.0	1.0	1				2:NA=1.80E+7
013	icp16065 SAMPLE	167188-002	84065 TC1P L	29-AUG-2003 11:06	1.0	1.0	1			5	
014	icp16065 CCV			29-AUG-2003 11:12	1.0	1.0	1				
015	icp16065 CCB			29-AUG-2003 11:14	1.0	1.0	1				1:NA=621100
016	icp16065 SAMPLE	167188-002	84065 TC1P L	29-AUG-2003 11:19	5.0	1.0					1:NA=1.70E+7
017	icp16065 SAMPLE	167188-003	84065 TC1P L	29-AUG-2003 11:22	1.0	1.0					
018	icp16065 SAMPLE	167214-001	84082 Miscel	29-AUG-2003 11:27	1.0	38.91051					
019	icp16065 SAMPLE	167214-002	84082 Miscel	29-AUG-2003 11:29	1.0	40.16064					
020	icp16065 SAMPLE	167187-001	84082 Miscel	29-AUG-2003 11:31	1.0	39.84064					
021	icp16065 SAMPLE	167187-002	84082 Miscel	29-AUG-2003 11:34	1.0	41.49378					
022	icp16065 SAMPLE	167188-003	84082 Soil	29-AUG-2003 11:36	1.0						
023	icp16065 SAMPLE	167188-003	84082 Soil	29-AUG-2003 11:41	10.0						
024	icp16065 SAMPLE	167188-005	84082 Soil	29-AUG-2003 11:47	1.0	1.0				4	5:AL=547500
025	icp16065 ICSAB			29-AUG-2003 11:53	1.0	1.0				5	
026	icp16065 CCV			29-AUG-2003 12:00	1.0	1.0					
027	icp16065 CCB			29-AUG-2003 12:03	1.0	1.0	1				

Stds used: 1=03WS1092 2=03WS1094 3=03WS1227 4=03WS1093 5=03WS1095

Analyst: *James*

Date: *8/28/03*

Page 1 of 1

REPORTING SUMMARY FOR 167188 METALS TCLP Leachate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	P B	
167188-001	MET01	08/29/03 10:39	1.0	+	
167188-002	MET01	08/29/03 11:06	1.0		
167188-002	MET01	08/29/03 11:19	5.0	+	
167188-003	MET01	08/29/03 11:22	1.0	+	
QC223887	MET01	08/29/03 10:31	1.0	+	
QC223888	MET01	08/29/03 10:33	1.0	+	
QC223889	MET01	08/29/03 10:35	1.0	+	
QC223890	MET01	08/29/03 11:01	1.0	+	
QC223891	MET01	08/29/03 11:03	1.0	+	
QC224010	MET01	08/29/03 10:45	5.0	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 29-AUG-2003 10:37

Batch Number : 84065
 Date Extracted : 28-AUG-2003
 Extracted by : Rodellio S. Manuel
 Prep Method : 3010
 Analysis : N/A
 Bgroup : ICAP
 Units : ml
 Clean-up :
 Spike #1 ID : 03SS286
 Spike #2 ID : 03SS287
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
167188-001		Treadwell & Rollo	TCLP Leachate	50	ml	50	1	1					PB
167188-002		Treadwell & Rollo	TCLP Leachate	50	ml	50	1	1					PB
167188-003		Treadwell & Rollo	TCLP Leachate	50	ml	50	1	1					PB
QC223887	BLANK		TCLP Leachate	50	ml	50	1	1					ICAP
QC223888	BS		TCLP Leachate	50	ml	50	1	1	.5	.5			ICAP
QC223889	BSD		TCLP Leachate	50	ml	50	1	1	.5	.5			ICAP
QC223890	SDUP	of 167188-001	TCLP Leachate	50	ml	50	1	1					ICAP
QC223891	SSPIKE	of 167188-001	TCLP Leachate	50	ml	50	1	1	.5	.5			ICAP
QC224010	SER	of 167188-001	TCLP Leachate	50	ml	50	1	1					ICAP

Prep Chemist: James I for RSM Reviewed By: James I Date: 8/28/03
 Relinquished By: James I for RSM Received By: James I Date: 8/28/03

8/24/03

84065

Sample	Init. Vol.	Fin. Vol.	Comment	Method
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BLANK

50 ML.

50 ML.

3010 A

BGS

\$

BGD

\$

167188

-1

-1 DUP

-1 SPIKE

\$

-2

-3

SPIKE (\$) - 0365286 - 0.5 ML.

- 0365287 - 0.5 ML.

HNO₃ - Baker - X 38023

HCl - Baker - X 45026

Continued on Page

Read and Understood By

R. Manning

Signed

8/28/03

Date

27

[Signature]

Signed

8/28/03

Date

Curtis & Tompkins, Ltd.

LIMS Batch #: 84047 Date/ Time ON: 8/27/03 @ 3:15 P.M. Page: **6**
Extraction Method: 1311 Temp (F) ON: 23⁰C Benchbook#: **BK1777**
Rotator #'s: 2 Date/ Time OFF: 8/28/03 @ 4:30 A.M.
Temp (F) OFF: 23⁰C

Sample # / Letter	Vessel #	Sample Mass (g)	Sieved? (y/n)*	Sample pH	pH after +1N HCl	Extract Fluid #	Extract Vol (mL)	Final pH	*Comments
Blank	1	—	N	4.76	1.70	1	500 mL	5	passed vis.
167188-1	2	25g	↓	5.67	1.70	↓	↓	↓	166624-17
↓ -2	3	↓	↓	5.93	1.70	↓	↓	↓	-6
↓ -3	4	↓	↓	5.60	1.75	↓	↓	↓	↓ -16

Date/ Initials


Y	8/21/03 DSM
Baker 3161	
Baker V21805	
4.93, 4.94	
2210801 W TCLP	

Fluid #2 pH

Extract filtered through 0.7um x 142mm TCLP filter paper

R. Mandy 8/27/03
Extraction Chemist Date

28

 8/28/11
Reviewed by _____ Date _____

Lead			
Lab #:	167188	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	WET
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	84099
Matrix:	WET Leachate	Prepared:	08/29/03
Units:	ug/L	Analyzed:	09/02/03

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Received
CHPSB06 [1]	SAMPLE	167188-001	330,000	7,500	5.000	07/29/03	07/30/03
CHPSB07 [1]	SAMPLE	167188-002	480,000	7,500	5.000	07/29/03	07/30/03
CHPSB05 [1]	SAMPLE	167188-003	100,000	7,500	5.000	07/29/03	07/30/03
CHPSB02 [0.3]	SAMPLE	167188-004	15,000	7,500	5.000	07/30/03	07/30/03
CHPSB03 [0.3]	SAMPLE	167188-005	12,000	1,500	1.000	07/30/03	07/30/03
CHPSB07 [2]	SAMPLE	167188-006	49,000	1,500	1.000	07/29/03	07/30/03
CHPSB07 [3]	SAMPLE	167188-007	31,000	1,500	1.000	07/29/03	07/30/03
BAPSB03R [5.5]	SAMPLE	167188-008	ND	1,500	1.000	08/01/03	08/01/03
	BLANK	QC224031	ND	1,500	1.000		

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Lead			
Lab #:	167188	Location:	Presidio - Firing Ranges
Client:	Treadwell & Rollo	Prep:	WET
Project#:	2893.07	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	84099
Field ID:	CHPSB06[1]	Sampled:	07/29/03
MSS Lab ID:	167188-001	Received:	07/30/03
Matrix:	WET Leachate	Prepared:	08/29/03
Units:	ug/L	Analyzed:	09/02/03

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln	Fac
BS	QC224032		2,000	2,072		104	68-123				1.000
BSD	QC224033		2,000	2,040		102	68-123	2	27		1.000
SDUP	QC224034	332,500		331,500	7,500			0	43		5.000
SSPIKE	QC224035	332,500	10,000	303,300		-293	NM 33-145				5.000

NM= Not Meaningful

RL= Reporting Limit

RPD= Relative Percent Difference

Page 1 of 1

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01
Seqnum : 13353422010	Seqnum : 13353422011
Filename : icp160743	Filename : icp160744
IDF : 5.0	IDF : 25.0
PDF : 5.0	PDF : 5.0
Run type : MSS	Run type : SER
Samplenum: 167188-001	Samplenum: QC224212
Matrix : WET Leachate	Matrix : WET Leachate
Batchnum : 84099	Batchnum : 84099
Inj : 02-SEP-2003 11:15	Inj : 02-SEP-2003 11:19
Units : ug/L	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	28900	2500	30000	12500	4	10		u
Antimony	2600	1500	ND	7500	--	10		u
Arsenic	776	125	1470	625	--	10		ab*
Barium	2410	250	2520	1250	--	10		u
Beryllium	ND	50.0	ND	250	--	10		u
Cadmium	ND	125	ND	625	--	10		u
Calcium	103000	12500	103000	62500	--	10		u
Chromium	502	250	ND	1250	--	10		u
Cobalt	ND	500	ND	2500	--	10		u
Copper	2550	250	2710	1250	6	10		u
Iron	80700	2500	82400	12500	2	10		u
Lead	333000	75.0	350000	375	5	10		u
Magnesium	19300	12500	ND	62500	--	10		u
Manganese	12300	250	12500	1250	2	10		u
Molybdenum	*** usable MSS data not found ***							
Nickel	ND	500	ND	2500	--	10		u
Potassium	*** usable MSS data not found ***							
Selenium	432	125	ND	625	--	10		u
Silver	ND	125	ND	625	--	10		u
Sodium	*** usable MSS data not found ***							
Thallium	ND	125	ND	625	--	10		u
Vanadium	ND	250	ND	1250	--	10		u
Zinc	3890	500	4470	2500	--	10		u
Boron	*** usable MSS data not found ***							
Phosphorus	*** usable MSS data not found ***							
Silicon	*** usable MSS data not found ***							
Sulfide	*** usable MSS data not found ***							
Tin	*** usable MSS data not found ***							
Titanium	*** usable MSS data not found ***							

a=rsd out b=noncompliant u=use

Page 1 of 1

Method: 6010B Standard: blank
Run Time: 09/02/03 10:14:12

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0008	-.0013	.0001	.0003	.0003	.0011	-.0003
SDev	.0000	.0029	.0002	.0000	.0004	.0008	.0004
%RSD	.1572	235.4	141.4	.1572	141.4	70.83	141.4
#1	.0008	.0008	.0000	.0003	.0000	.0006	.0000
#2	.0008	-.0033	.0003	.0003	.0006	.0017	-.0006
Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0011	.0006	.0003	-.0033	.0021	-.0003	-.0003
SDev	.0004	.0008	.0008	.0024	.0022	.0000	.0004
%RSD	35.21	141.4	282.4	70.59	103.8	.1572	141.4
#1	.0014	.0000	-.0003	-.0050	.0006	-.0003	-.0006
#2	.0008	.0011	.0008	-.0017	.0036	-.0003	.0000
Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0004	.0004	.0032	.1847	.0139	.0043	.0008
SDev	.0006	.0002	.0002	.0013	.0039	.0010	.0000
%RSD	141.4	47.28	5.992	.6893	28.13	22.96	.1572
#1	-.0008	.0003	.0033	.1838	.0167	.0036	.0008
#2	.0000	.0006	.0031	.1856	.0111	.0050	.0008
Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	
Avge	.0183	.0125	.0015	.0074	.0000	-.0004	
SDev	.0040	.0004	.0002	.0002	.0000	.0006	
%RSD	21.58	3.300	13.01	2.511	.0000	141.4	
#1	.0155	.0122	.0014	.0075	.0000	.0000	
#2	.0211	.0128	.0017	.0072	.0000	-.0008	

Method: 6010B Standard: cs hi

Run Time: 09/02/03 10:18:44

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.4127	.7436	11.38	.2702	2.481	.8289	.6334
SDev	.0077	.0077	.25	.0068	.037	.0196	.0152
%RSD	1.860	1.041	2.201	2.527	1.478	2.367	2.400

#1	.4181	.7490	11.56	.2750	2.507	.8428	.6441
#2	.4072	.7381	11.21	.2654	2.455	.8150	.6226

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.147	.2349	1.932	1.563	.4366	.1354	.4543
SDev	.023	.0044	.033	.032	.0066	.0023	.0024
%RSD	2.006	1.893	1.725	2.050	1.507	1.686	.5219

#1	1.163	.2381	1.956	1.586	.4412	.1371	.4560
#2	1.131	.2318	1.909	1.540	.4319	.1338	.4526

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.6648	1.413	2.845	32.84	4.980	7.402	1.192
SDev	.0154	.028	.052	.66	.116	.138	.025
%RSD	2.313	1.999	1.825	2.023	2.331	1.858	2.087

#1	.6757	1.433	2.882	33.31	5.062	7.499	1.210
#2	.6539	1.393	2.808	32.37	4.897	7.304	1.175

Elem	K_7664	Na5889
Avge	.7206	6.987
SDev	.0159	.140
%RSD	2.211	2.001

#1	.7319	7.086
#2	.7094	6.888

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	24372.9	-23.8017	09/02/03 10:18:44
As1890	189.042	Multiple	Standards	13481.9	-24.4614	09/02/03 10:18:44
Ba4934	493.409	Multiple	Standards	1757.11	-.244723	09/02/03 10:18:44
Be3130	313.042	Multiple	Standards	1925.50	-.536874	09/02/03 10:18:44
Cd2288	228.802	Multiple	Standards	4043.95	-2.25510	09/02/03 10:18:44
Cr2677	267.716	Multiple	Standards	2417.30	-.673342	09/02/03 10:18:44
Co2286	228.616	Multiple	Standards	7934.56	5.52978	09/02/03 10:18:44
Cu3247	324.754	Multiple	Standards	2185.76	-2.43658	09/02/03 10:18:44
Pb2203	220.353	Multiple	Standards	42658.8	29.7647	09/02/03 10:18:44
Mo2020	202.030	Multiple	Standards	5175.92	2.16687	09/02/03 10:18:44
Ni2316	231.604	Multiple	Standards	3197.13	2.66821	09/02/03 10:18:44
Se1960	196.026	Multiple	Standards	22861.8	-3.17166	09/02/03 10:18:44
Ag3280	328.068	Multiple	Standards	7206.89	2.00749	09/02/03 10:18:44
Tl1908	190.864	Multiple	Standards	22088.8	-30.7404	09/02/03 10:18:44
V_2924	292.402	Multiple	Standards	7386.18	-2.05743	09/02/03 10:18:44
Zn2138	213.856	Multiple	Standards	3530.42	-.001921	09/02/03 10:18:44
Al3961	396.153	Multiple	Standards	7085.31	-5.92472	09/02/03 10:18:44
Ca3179	317.933	Multiple	Standards	1530.83	-275.728	09/02/03 10:18:44
Fe2599	259.940	Multiple	Standards	2010.24	-10.0901	09/02/03 10:18:44
Mg2790	279.079	Multiple	Standards	6724.48	-.007319	09/02/03 10:18:44
Mn2576	257.610	Multiple	Standards	4194.01	-.585266	09/02/03 10:18:44
K_7664	766.491	Multiple	Standards	70571.5	-855.710	09/02/03 10:18:44
Na5889	588.995	Multiple	Standards	7167.91	-80.9396	09/02/03 10:18:44
Sn1899	189.989	STD4	blank	5631.91	.776727	09/02/03 10:18:44
B_2496	249.678	STD4	blank	6845.78	-53.4398	09/02/03 10:18:44
Ti3349	334.941	STD4	blank	1359.19	.189672	09/02/03 10:18:44
P_1782	178.287	STD4	blank	2536e6	352548.	09/02/03 10:18:44
S_1820	182.040	STD4	STD1-Blank	104.880	-7.69820	09/02/03 10:18:44
Si2881	288.158	STD4	STD1-Blank	239.752	-67.1066	09/02/03 10:18:44

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13353422001

Run Name :
Filename : icp160734

Injected : 02-SEP-2003 10:22
Caltpe :

Standards: 03WS1092

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	19500.00	ug/L	-3	5	
Antimony	10000.00	9798.000	ug/L	-2	5	
Arsenic	10000.00	9881.000	ug/L	-1	5	
Barium	20000.00	19540.00	ug/L	-2	5	
Beryllium	500.0000	491.4000	ug/L	-2	5	
Cadmium	10000.00	9882.000	ug/L	-1	5	
Calcium	50000.00	49420.00	ug/L	-1	5	
Chromium	2000.000	1963.000	ug/L	-2	5	
Cobalt	5000.000	4896.000	ug/L	-2	5	
Copper	2500.000	2433.000	ug/L	-3	5	
Iron	10000.00	9794.000	ug/L	-2	5	
Lead	10000.00	9961.000	ug/L	0	5	
Magnesium	50000.00	48980.00	ug/L	-2	5	
Manganese	5000.000	4907.000	ug/L	-2	5	
Molybdenum	10000.00	9843.000	ug/L	-2	5	
Nickel	5000.000	4927.000	ug/L	-1	5	
Potassium	50000.00	48660.00	ug/L	-3	5	
Selenium	10000.00	9851.000	ug/L	-1	5	
Silver	1000.000	991.1000	ug/L	-1	5	
Sodium	50000.00	48650.00	ug/L	-3	5	
Thallium	10000.00	9851.000	ug/L	-1	5	
Vanadium	5000.000	4905.000	ug/L	-2	5	
Zinc	5000.000	4942.000	ug/L	-1	5	

Curtis & Tompkins Laboratories

Injected : 02-SEP-2003 10:24
Caltype :

Standards: 03WS1094

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	975.2000	ug/L	-2		10	
Antimony	2000.000	1959.000	ug/L	-2		10	
Arsenic	2000.000	1924.000	ug/L	-4		10	
Barium	1000.000	1001.000	ug/L	0		10	
Beryllium	2000.000	1898.000	ug/L	-5		10	
Boron	1000.000	1024.000	ug/L	2		10	
Cadmium	2000.000	2024.000	ug/L	1		10	
Calcium	2000.000	2051.000	ug/L	3		10	
Chromium	2000.000	2031.000	ug/L	2		10	
Cobalt	2000.000	2076.000	ug/L	4		10	
Copper	2000.000	1957.000	ug/L	-2		10	
Iron	2000.000	1967.000	ug/L	-2		10	
Lead	2000.000	2070.000	ug/L	4		10	
Magnesium	2000.000	2007.000	ug/L	0		10	
Manganese	2000.000	2003.000	ug/L	0		10	
Molybdenum	2000.000	2071.000	ug/L	4		10	
Nickel	2000.000	2025.000	ug/L	1		10	
Potassium	10000.00	10040.00	ug/L	0		10	
Selenium	2000.000	1960.000	ug/L	-2		10	
Silver	1000.000	1005.000	ug/L	1		10	
Sodium	10000.00	9585.000	ug/L	-4		10	
Thallium	2000.000	2050.000	ug/L	3		10	
Titanium	2000.000	2204.000	ug/L	10		10	
Vanadium	2000.000	1992.000	ug/L	0		10	
Zinc	2000.000	2029.000	ug/L	1		10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13353422004

Run Name :
Filename : icp160737

Injected : 02-SEP-2003 10:31
Caltype :

Standards: 03WS1227

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	96.34000	ug/L	-4		50	
Antimony	60.00000	38.02000	ug/L	-37		50	
Arsenic	500.0000	511.3000	ug/L	2		50	
Barium	10.00000	9.907000	ug/L	-1		50	
Beryllium	2.000000	2.153000	ug/L	8		50	
Boron	20.00000	27.58000	ug/L	38		50	
Cadmium	5.000000	3.104000	ug/L	-38		50	
Calcium	500.0000	477.9000	ug/L	-4		50	
Chromium	10.00000	8.857000	ug/L	-11		50	
Cobalt	20.00000	18.90000	ug/L	-6		50	
Copper	10.00000	10.79000	ug/L	8		50	
Iron	100.0000	91.04000	ug/L	-9		50	
Lead	300.0000	293.9000	ug/L	-2		50	
Magnesium	500.0000	492.5000	ug/L	-2		50	
Manganese	10.00000	9.465000	ug/L	-5		50	
Molybdenum	20.00000	37.17000	ug/L	86		50	# ***
Nickel	20.00000	28.64000	ug/L	43		50	
Phosphorus	100.0000	-722400	ug/L	-722500		50	# ***
Potassium	500.0000	536.1000	ug/L	7		50	
Selenium	500.0000	419.0000	ug/L	-16		50	
Silver	5.000000	4.072000	ug/L	-19		50	
Sodium	500.0000	489.7000	ug/L	-2		50	
Thallium	500.0000	457.7000	ug/L	-8		50	
Tin	40.00000	41.21000	ug/L	3		50	
Titanium	10.00000	10.91000	ug/L	9		50	
Vanadium	10.00000	6.601000	ug/L	-34		50	
Zinc	20.00000	21.79000	ug/L	9		50	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 73353390004

Run Name :
Filename : tr215067

Injected : 02-SEP-2003 10:26
Caltype :

Standards: 03WS1263

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	107.4000	ug/L	7	50	
Antimony	60.00000	59.60000	ug/L	-1	50	
Arsenic	5.000000	7.540000	ug/L	51	50	# ***
Barium	10.00000	10.70000	ug/L	7	50	
Beryllium	2.000000	2.020000	ug/L	1	50	
Cadmium	5.000000	4.190000	ug/L	-16	50	
Chromium	10.00000	10.60000	ug/L	6	50	
Cobalt	20.00000	20.00000	ug/L	0	50	
Copper	10.00000	10.10000	ug/L	1	50	
Iron	100.0000	93.83000	ug/L	-6	50	
Lead	3.000000	3.270000	ug/L	9	50	
Manganese	10.00000	10.30000	ug/L	3	50	
Molybdenum	20.00000	19.10000	ug/L	-5	50	
Nickel	20.00000	20.20000	ug/L	1	50	
Selenium	5.000000	4.460000	ug/L	-11	50	
Silver	5.000000	4.940000	ug/L	-1	50	
Thallium	5.000000	6.170000	ug/L	23	50	
Vanadium	10.00000	10.20000	ug/L	2	50	
Zinc	20.00000	20.80000	ug/L	4	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13353422014

Run Name :
Filename : icp160747

Injected : 02-SEP-2003 11:27
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	956.3000	ug/L	-4		10	
Antimony		2000.000	2008.000	ug/L	0		10	
Arsenic		2000.000	2044.000	ug/L	2		10	
Barium		1000.000	975.2000	ug/L	-2		10	
Beryllium		2000.000	1974.000	ug/L	-1		10	
Boron		1000.000	1036.000	ug/L	4		10	
Cadmium		2000.000	2091.000	ug/L	5		10	
Calcium		2000.000	2042.000	ug/L	2		10	
Chromium		2000.000	1997.000	ug/L	0		10	
Cobalt		2000.000	2078.000	ug/L	4		10	
Copper		2000.000	1981.000	ug/L	-1		10	
Iron		2000.000	1975.000	ug/L	-1		10	
Lead		2000.000	2114.000	ug/L	6		10	
Magnesium		2000.000	2006.000	ug/L	0		10	
Manganese		2000.000	2024.000	ug/L	1		10	
Molybdenum		2000.000	2041.000	ug/L	2		10	
Nickel		2000.000	2084.000	ug/L	4		10	
Potassium		10000.00	9698.000	ug/L	-3		10	
Selenium		2000.000	1930.000	ug/L	-4		10	
Silver		1000.000	1029.000	ug/L	3		10	
Sodium		10000.00	10170.00	ug/L	2		10	
Thallium		2000.000	1990.000	ug/L	-1		10	
Titanium		2000.000	2178.000	ug/L	9		10	
Vanadium		2000.000	2011.000	ug/L	1		10	
Zinc		2000.000	2103.000	ug/L	5		10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13353422024

Run Name :
Filename : icp160757

Injected : 02-SEP-2003 12:07
Caltype :

Standards: 03WS1095

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		1000.000	964.8000	ug/L	-4		10	
Antimony		2000.000	2007.000	ug/L	0		10	
Arsenic		2000.000	1987.000	ug/L	-1		10	
Barium		1000.000	977.3000	ug/L	-2		10	
Beryllium		2000.000	1989.000	ug/L	-1		10	
Boron		1000.000	1026.000	ug/L	3		10	
Cadmium		2000.000	2098.000	ug/L	5		10	
Calcium		2000.000	2041.000	ug/L	2		10	
Chromium		2000.000	1979.000	ug/L	-1		10	
Cobalt		2000.000	2068.000	ug/L	3		10	
Copper		2000.000	1995.000	ug/L	0		10	
Iron		2000.000	1964.000	ug/L	-2		10	
Lead		2000.000	2113.000	ug/L	6		10	
Magnesium		2000.000	2011.000	ug/L	1		10	
Manganese		2000.000	2016.000	ug/L	1		10	
Molybdenum		2000.000	2027.000	ug/L	1		10	
Nickel		2000.000	2100.000	ug/L	5		10	
Potassium		10000.00	9805.000	ug/L	-2		10	
Selenium		2000.000	1887.000	ug/L	-6		10	
Silver		1000.000	1052.000	ug/L	5		10	
Sodium		10000.00	10410.00	ug/L	4		10	
Thallium		2000.000	2047.000	ug/L	2		10	
Titanium		2000.000	2149.000	ug/L	7		10	
Vanadium		2000.000	2018.000	ug/L	1		10	
Zinc		2000.000	2104.000	ug/L	5		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13353422003
Filename: icp160736

TJA ICP
Run Name:
Blank Type: ICB

Injected: 02-SEP-2003 10:27

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[3.5400]	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[14.410]	500.0000	ug/L	<RL	
Barium	[2.1610]	10.00000	ug/L	<RL	
Beryllium	[1.8530]	2.000000	ug/L	<RL	
Boron	[0.1346]	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[10.510]	500.0000	ug/L	<RL	
Chromium	[0.3344]	10.00000	ug/L	<RL	
Cobalt	[7.6540]	20.00000	ug/L	<RL	
Copper	[1.1500]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[29.840]	300.0000	ug/L	<RL	
Magnesium	[7.6840]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[15.650]	20.00000	ug/L	<RL	
Nickel	[7.1090]	20.00000	ug/L	<RL	
Phosphorus	2448000	100.0000	ug/L	<RL	d ***
Potassium	[73.210]	500.0000	ug/L	<RL	
Selenium	[15.700]	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	[0.0313]	5.000000	ug/L	<RL	
Sodium	[22.370]	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	[1.1280]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	[4.7940]	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13353422015
Filename: icp160748

TJA ICP
Run Name:
Blank Type: CCB

Injected: 02-SEP-2003 11:30

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[3.6660]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[8.8870]	500.0000	ug/L	<RL		
Barium	[1.4450]	10.00000	ug/L	<RL		
Beryllium	[1.8510]	2.000000	ug/L	<RL		
Boron	ND	100.0000	ug/L	<RL		
Cadmium	[1.0400]	5.000000	ug/L	<RL		
Calcium	[1.7050]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[9.8840]	20.00000	ug/L	<RL		
Copper	[0.2620]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[29.860]	300.0000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[1.7200]	10.00000	ug/L	<RL		
Molybdenum	[9.2820]	20.00000	ug/L	<RL		
Nickel	[7.9840]	20.00000	ug/L	<RL		
Phosphorus	1052000	100.0000	ug/L	<RL	d	***
Potassium	[288.70]	500.0000	ug/L	<RL		
Selenium	[47.140]	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Sodium	[44.130]	500.0000	ug/L	<RL		
Sulfide	ND	1.000000	mg/L	<RL		
Thallium	ND	500.0000	ug/L	<RL		
Tin	ND	40.00000	ug/L	<RL		
Titanium	[1.4970]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[4.3220]	20.00000	ug/L	<RL		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01
Seqnum: 13353422025
Filename: icp160758

TJA ICP
Run Name:
Blank Type: CCB

Injected: 02-SEP-2003 12:12

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[27.600]	500.0000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[1.2670]	2.000000	ug/L	<RL		
Boron	ND	100.0000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	[1.3000]	20.00000	ug/L	<RL		
Copper	[0.1874]	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	[7.2730]	300.0000	ug/L	<RL		
Magnesium	ND	500.0000	ug/L	<RL		
Manganese	[0.5319]	10.00000	ug/L	<RL		
Molybdenum	[6.2990]	20.00000	ug/L	<RL		
Nickel	[4.8230]	20.00000	ug/L	<RL		
Phosphorus	691400.0	100.0000	ug/L	<RL	d	***
Potassium	[9.8950]	500.0000	ug/L	<RL		
Selenium	[8.8770]	500.0000	ug/L	<RL		
Silicon	ND	200.0000	ug/L	<RL		
Silver	[2.9740]	5.000000	ug/L	<RL		
Sodium	[18.360]	500.0000	ug/L	<RL		
Sulfide	ND	1.000000	mg/L	<RL		
Thallium	ND	500.0000	ug/L	<RL		
Tin	[2.2240]	40.00000	ug/L	<RL		
Titanium	[0.5552]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	[4.2000]	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 13353422005

Run Name :
Filename : icp160738

Injected : 02-SEP-2003 10:42
Caltpe :

Standards: 03WS1093

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	548900.0	ug/L	10			
Antimony	2000.000	2119.000	ug/L	6		20	
Arsenic	2000.000	2283.000	ug/L	14		20	
Barium	500.0000	476.1000	ug/L	-5		20	
Beryllium	500.0000	482.4000	ug/L	-4		20	
Cadmium	1000.000	1065.000	ug/L	7		20	
Calcium	500000.0	521500.0	ug/L	4			
Chromium	500.0000	495.5000	ug/L	-1		20	
Cobalt	500.0000	511.6000	ug/L	2		20	
Copper	500.0000	506.0000	ug/L	1		20	
Iron	200000.0	178900.0	ug/L	-11			
Lead	1000.000	1007.000	ug/L	1		20	
Magnesium	500000.0	498600.0	ug/L	0			
Manganese	500.0000	508.9000	ug/L	2		20	
Molybdenum	500.0000	479.3000	ug/L	-4		20	
Nickel	1000.000	970.5000	ug/L	-3		20	
Selenium	2000.000	2391.000	ug/L	20		20	
Silver	1000.000	1107.000	ug/L	11		20	
Thallium	2000.000	2092.000	ug/L	5		20	
Titanium	2000.000	2210.000	ug/L	11		20	
Vanadium	500.0000	466.3000	ug/L	-7		20	
Zinc	1000.000	1048.000	ug/L	5		20	

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 13353422 Instrument: MET01 TJA ICP

Begun: 02-SEP-2003

#	Filename	Type	Samplerum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Std's Used	>LR
001	icp16073	CS				02-SEP-2003	10:22 1.0	1.0				1	1:P=4310000
002	icp16073	ICV				02-SEP-2003	10:24 1.0	1.0				2	1:P=1045000
003	icp16073	ICB				02-SEP-2003	10:27 1.0	1.0					1:P=2448000
004	icp16073	CRI				02-SEP-2003	10:31 1.0	1.0				3	
005	icp16073	ICCSAB				02-SEP-2003	10:42 1.0	1.0				4	6:P=3025000
006	icp16073	BLANK	QC224031			02-SEP-2003	10:56 1.0	5.0					2:NA=1557000
007	icp16074	BS	QC224032			02-SEP-2003	10:58 1.0	1.0					1:P=2834000
008	icp16074	BSD	QC224033			02-SEP-2003	11:01 1.0	1.0					1:P=2139000
009	icp16074	X	167188-001			02-SEP-2003	11:12 1.0	5.0					2:NA=1557000
010	icp16074	MSS	167188-001			02-SEP-2003	11:15 5.0	5.0					
011	icp16074	SER	QC224212			02-SEP-2003	11:19 5.0	5.0					
012	icp16074	SDUP	QC224034			02-SEP-2003	11:22 5.0	5.0					
013	icp16074	SSPIKE	QC224035			02-SEP-2003	11:25 5.0	5.0					
014	icp16074	CCV				02-SEP-2003	11:27 1.0	1.0				5	
015	icp16074	CCB				02-SEP-2003	11:30 1.0	1.0					1:P=1052000
016	icp16074	SAMPLE	167188-002			02-SEP-2003	11:36 5.0	5.0					1:P=3568000
017	icp16075	SAMPLE	167188-003			02-SEP-2003	11:39 5.0	5.0					1:P=1454000
018	icp16075	SAMPLE	167188-004			02-SEP-2003	11:42 5.0	5.0					
019	icp16075	SAMPLE	167188-005			02-SEP-2003	11:46 1.0	5.0					1:NA=1505000
020	icp16075	SAMPLE	167188-006			02-SEP-2003	11:49 1.0	5.0					2:NA=1458000
021	icp16075	SAMPLE	167188-007			02-SEP-2003	11:52 1.0	5.0					2:NA=1336000
022	icp16075	SAMPLE	167188-008			02-SEP-2003	11:57 1.0	5.0					1:NA=1661000
023	icp16075	SAMPLE	167195-001			02-SEP-2003	12:01 1.0	5.0					2:NA=9554000
024	icp16075	CCV				02-SEP-2003	12:07 1.0	1.0				5	1:P=2840000
025	icp16075	CCB				02-SEP-2003	12:12 1.0	1.0					1:P=6914000

Std's used: 1=03WS1092 2=03WS1094 3=03WS1227 4=03WS1093 5=03WS1095

Analyst: Date: 01.20.03
Page 1 of 1

REPORTING SUMMARY FOR 167188 METALS WET Leachate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	P B	
167188-001	MET01	09/02/03 11:15	5.0	+	
167188-002	MET01	09/02/03 11:36	5.0	+	
167188-003	MET01	09/02/03 11:39	5.0	+	
167188-004	MET01	09/02/03 11:42	5.0	+	
167188-005	MET01	09/02/03 11:46	1.0	+	
167188-006	MET01	09/02/03 11:49	1.0	+	
167188-007	MET01	09/02/03 11:52	1.0	+	
167188-008	MET01	09/02/03 11:57	1.0	+	
QC224031	MET01	09/02/03 10:56	1.0	+	
QC224032	MET01	09/02/03 10:58	1.0	+	
QC224033	MET01	09/02/03 11:01	1.0	+	
QC224034	MET01	09/02/03 11:22	5.0	+	
QC224035	MET01	09/02/03 11:25	5.0	+	
QC224212	MET01	09/02/03 11:19	25.0	+	

Curtis & Tompkins Laboratories

Sample Preparation Summary

02-SEP-2003 11:01

Batch Number : 84099
Date Extracted: 29-AUG-2003
Extracted by : Rodellio S. Manuel
Prep Method : WETAnalysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :Spike #1 ID : 03SS286
Spike #2 ID : 03SS287
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	D.F.	Prep	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Comments
167188-001		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-002		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-003		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-004		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-005		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-006		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-007		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167188-008		Treadwell & Rollo	WET Leachate	10	ml	50	5	1	1					PB	
167195-001		ConocoPhillips Company	WET Leachate	10	ml	50	5	1	1					V	
QC224031	BLANK		WET Leachate	10	ml	50	5	1	1					ICAP	
QC224032	BS		WET Leachate	50	ml	50	1	1	1		.5	.5		ICAP	
QC224033	SDUP		WET Leachate	50	ml	50	1	1	1		.5	.5		ICAP	
QC224034	SSPIKE	of 167188-001	WET Leachate	10	ml	50	5	1	1		.5	.5		ICAP	
QC224035	SER	of 167188-001	WET Leachate	10	ml	50	5	1	1		.5	.5		ICAP	
QC224212			WET Leachate	10	ml	50	5	1	1					ICAP	

Prep Chemist: Nh Rm qm Reviewed By: N Date: 9/20

Relinquished By: Nh Rm 9/20 Received By: N Date: 9/20

8/29/03

84099

Sample	Init. Vol.	Fin. Vol.	Command	Method
BLANK	10 ML.	50 ML.		WET
BS	50 ML.		\$	
BSJ	↓		\$	
167188 - 1	10 ML.			
- 1 DHD				
- 1 SPIKE			\$	
- 2				
- 3				
- 4				
- 5				
- 6				
- 7				
- 8				
167195 - 1				

SPIKE - (\$) - 0355286 - 0.5 ML.
- 0355287 - 0.5 ML.
HNO₃ - Baker - Y14043

Continued on Page

Read and Understood By

D. Mcniff

Signed

8/29/03

Date

48

Mnn

Signed

8-29-03

Date

Curtis & Tompkins, Ltd.

LIMS Batch #: 84046 Date/ Time ON: 8/27/03 @ 2:58 P.M. Page: **36**
Extraction Method: WET Temp (F) ON: 23°C Benchbook#: **BK 1743**
Rotator #'s: B-2 Date/ Time OFF: 8/29/03 @ 2:38 P.M.
Temp (F) OFF: 23°C

Sample # / Letter	Sample Mass (g)	Sieved? (y/n)*	Extract Vol (mL)	*Comments
BLANK		N	500 mL	pressed visual
167188-1	50g	N		166624-17
-2				-6
-3				-16
-4				-41
-5				-39
-6				-7
-7				-9
-8				-1
167195-1	50g	N	500 mL	167143-1 (AOL)

Extraction Fluid pH Limits: 4.9 - 5.1 su

Metals extracts acidified with 5% HNO₃

Date/ Initials

Baker Y16047

Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS MET-05
Water MDLs (ug/L)	6/19/03	6/23/03	4/14/03
Antimony	12	30	0.28
Arsenic	3.3	110	0.17
Barium	0.42	0.62	0.18
Beryllium	0.13	0.65	0.21
Cadmium	0.14	2.3	0.27
Chromium	0.32	4.8	0.17
Cobalt	0.76	8.8	0.065
Copper	0.42	2.6	0.33
Lead	1.3	100	0.062
Molybdenum	2.4	6.8	0.28
Nickel	0.51	10	0.081
Selenium	3.2	230	0.27
Silver	0.43	4.1	0.10
Thallium	1.3	310	0.13
Vanadium	0.59	4.5	0.12
Zinc	2.7	4.1	0.95

Aluminum	6.1	49	2.9
Calcium	6.8	10	47
Iron	18	56	43
Magnesium	4.0	4.7	19
Manganese	0.27	4.7	0.12
Potassium	--	320	18
Sodium	--	270	27

CVAA/ Flame AA

Water MDLs (ug/L)	MDL	Analyzed Instrument
Mercury (EPA 7470A)	0.097	3/11/03 MET-04
	0.086	4/23/03 MET-03
Organic Lead (CA LUFT)	49	4/01/03 MET-02

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Water MDLs (ug/L)	5/14/03
Boron	13
Tin	35
Titanium	3.2

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
BAPSB16[1]	166682-011	Soil	Zinc	20	DUP080103E	166682-012	29	-37%
BAPSB05[7]	166652-016	Soil	Barium	110	DUP080103F	166652-017	110	0%
BAPSB05[7]	166652-016	Soil	Copper	10	DUP080103F	166652-017	9.6	4%
BAPSB05[7]	166652-016	Soil	Lead	17	DUP080103F	166652-017	9	62%
BAPSB05[7]	166652-016	Soil	Antimony	0	DUP080103F	166652-017	0	NA
BAPSB05[7]	166652-016	Soil	Zinc	33	DUP080103F	166652-017	30	10%
LCPSB33[2]	166716-005	Soil	Barium	11	DUP080403A	166716-006	9.1	19%
LCPSB33[2]	166716-005	Soil	Copper	28	DUP080403A	166716-006	24	15%
LCPSB33[2]	166716-005	Soil	Lead	51	DUP080403A	166716-006	60	-16%
LCPSB33[2]	166716-005	Soil	Antimony	0	DUP080403A	166716-006	0	NA
LCPSB33[2]	166716-005	Soil	Zinc	14	DUP080403A	166716-006	14	0%

APPENDIX D

Data Validation Reports

TO: Dorinda Shipman, Treadwell & Rollo, Inc.

December 8, 2003

FROM: Donna Breaux, DataVal, Inc.

T&R Project No. 2893.07

QUALITY CONTROL SUMMARY REPORT FOR THE PRESIDIO TRUST SMALL ARMS FIRING RANGES SITE

LABORATORY: Curtis & Tompkins, LTD., Berkeley, CA

SAMPLING DATES: July 21 through July 25, July 28 through July 31, and August 1, 2003

Data validation of Levels III and IV laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, July, 2002.

The data were reviewed for holding times, laboratory method blanks, initial and continuing calibration verification (ICV/CCV) standards, laboratory control samples (LCS), laboratory duplicate samples, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards, ICP serial dilutions, compound identification and quantitation, and field duplicate samples.

The attached Table 1 summarizes the site samples, laboratory sample IDs, sampling dates, analysis methods and sample types. This table also designates which samples received full (Level IV) data validation. The attached Table 2 summarizes the data qualifications, and Table 3 summarizes the results of the field duplicate pairs.

The following paragraphs highlight the essential findings of the data validation effort:

I. Total Metals (6010B)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reasons noted in Sections G and I. Data was rejected for the reasons noted in Section G.

A. Reporting Limits

The laboratory reporting limit for metals met the project required reporting limit, with the following exceptions:

1. The reporting limits for all soils were raised due to dry weight correction.
2. The laboratory reporting limit for cobalt in water matrix samples did not meet the project required reporting limit listed in Table 2-5.21-1 of the QAPP. The laboratory reported 20 ug/L for cobalt. The project required reporting limit was 10 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Per notification from the project office, the results for all soil samples were not evaluated using rinse blank and source blank results.

D. Initial and Continuing Calibrations

All initial and continuing calibration verification standards associated with the project samples met QC acceptance criteria, with the following exception:

1. Initial and continuing calibration standards that had metals with percent recoveries that failed high, and were associated with samples with non-detected results for those metals, did not require qualification, and are not noted in this report.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for aluminum, antimony, iron, magnesium and manganese were outside the 75%-125% project acceptance criteria in QC samples MGBSB16[1] (166460-001) MS/MSD. The amounts of aluminum, iron and manganese present in the parent sample were greater than four times the amounts spiked and qualification was not required. The detected results for magnesium in the associated samples were qualified as estimated with a high bias (J+). All associated samples were non-detect for antimony. Since the percent recoveries for antimony were less than 30%, rejection of the data was required. The non-detected results for antimony in the associated samples were qualified as rejected (R). (QC batch 83086)
2. The percent recoveries for antimony and zinc were outside the 75%-125% project acceptance criteria in QC samples DUP072203A (166460-022) MS/MSD. The detected results for zinc in the associated samples were qualified as estimated with a low bias (J-). All associated samples were non-detect for antimony. Since the percent recoveries for antimony were less than 30%, rejection of the data was required. The non-detected results for antimony in the associated samples were qualified as rejected (R). (QC batch 83107)
3. The percent recoveries for antimony, iron, copper, manganese, nickel, selenium and zinc were outside the 75%-125% project acceptance criteria in QC samples LCPSB35[1] (166494-015) MS/MSD. The

amounts of iron and manganese in the parent sample were greater than four times the amounts spiked, and qualification was not required. The results for antimony, copper, nickel, selenium and zinc in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83120)

4. The percent recoveries for antimony, arsenic, magnesium and manganese were outside the 75%-125% project acceptance criteria in QC samples 166495-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC batch 83172)
5. The percent recoveries for aluminum, antimony, iron, magnesium and manganese were outside the 75%-125% project acceptance criteria in QC samples LCPSB13[1]MSD (166535-014) MS/MSD. The amounts of aluminum, iron and manganese in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected results for magnesium in the associated samples were qualified as estimated with a high bias (J+). The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83184)
6. The percent recoveries for aluminum, antimony, copper, iron, magnesium and manganese were outside the 75%-125% project acceptance criteria in QC samples LCPSB18[1] (166535-021) MS/MSD. The amounts of aluminum, iron and manganese in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected results for copper and magnesium in the associated samples were qualified as estimated with a high bias (J+). The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83185)
7. The percent recoveries for aluminum, antimony, iron, manganese and zinc were outside the 75%-125% project acceptance criteria in QC samples LCBSB32[0.3][MSD] (166535-051) MS/MSD. The amounts of aluminum, iron and manganese in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected results for zinc in the associated samples were qualified as estimated with a high bias (J+). The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83186)
8. The percent recoveries for antimony, magnesium and manganese were outside the 75%-125% project acceptance criteria in QC samples 166554-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC batch 83290)
9. The percent recoveries for antimony and zinc were outside the 75%-125% project acceptance criteria in QC samples BAPSB01[4.5][MSD] (166560-016) MS/MSD. Since the percent recoveries for antimony were less than 30%, rejection of the data was required. The non-detected results for antimony in the associated samples were qualified as rejected

- (R). The detected results for zinc in the associated samples were qualified as estimated with a low bias (J-). (QC batch 83258)
10. The percent recoveries for aluminum, antimony, copper, iron, magnesium, manganese, nickel and zinc were outside the 75%-125% project acceptance criteria in QC samples 166550-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC batch 83188)
 11. The percent recoveries for antimony and zinc were outside the 75%-125% project acceptance criteria in QC samples DUP072403D (166561-022) MS/MSD. The results for antimony and zinc in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83296)
 12. The percent recoveries for aluminum, antimony, iron, magnesium, manganese and nickel were outside the 75%-125% project acceptance criteria in QC samples BAPSB14[1][MSD] (166599-007) MS/MSD. The amounts of aluminum, iron, magnesium, manganese and nickel present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83337)
 13. The percent recoveries for aluminum, antimony, copper and manganese were outside the 75%-125% project acceptance criteria in QC samples LCPSB01[1] (166599-013) MS/MSD. The amounts of aluminum and manganese present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected results for copper in the associated samples were qualified as estimated with a high bias (J+). The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83342)
 14. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples BAPSB17[0.3][MSD] (166599-003) MS/MSD. The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83339)
 15. The percent recoveries for antimony, copper and lead were outside the 75%-125% project acceptance criteria in QC samples BAPSB17[1][MSD] (166599-004) MS/MSD. In addition, the relative percent difference (RPD) between the results for lead in the MS and MSD failed the 35% RPD acceptance criteria. The results for antimony, copper and lead in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83339)
 16. The percent recoveries for aluminum, antimony and iron were outside the 75%-125% project acceptance criteria in QC samples CHPSB08[1] (166624-011) MS/MSD. The amounts of aluminum and iron present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83387)

17. The percent recoveries for antimony, barium and zinc were outside the 75%-125% project acceptance criteria in QC samples CHPSB27[2][MSD] (166624-027) MS/MSD. The results for antimony, barium and zinc in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83375)
18. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples CHPSB11[3][MSD] (166624-032) MS/MSD. The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83377)
19. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples CHPSB02[2] (166624-043) MS/MSD. The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83377)
20. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples CHPSB11[1] (166624-030) MS/MSD. The results for antimony in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83433)
21. The percent recoveries for antimony, iron, manganese and magnesium, were outside the 75%-125% project acceptance criteria in QC samples LCBSB38[1][MSD] (166645-025) MS/MSD. The amount of iron present in the parent sample was greater than four times the amount spiked, and qualification was not required. The results for antimony, magnesium and manganese in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83452)
22. The percent recoveries for antimony and lead were outside the 75%-125% project acceptance criteria in QC samples LCBSB39[1][MSD] (166645-008) MS/MSD. In addition, the relative percent difference (RPD) between the results for lead in the MS and MSD failed the 35% RPD acceptance criteria. The detected results for lead in the associated samples were qualified as estimated with a high bias (J+). The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83421)
23. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples LCBSB20[2][MSD] (166645-014) MS/MSD. The results for antimony were non-detect in the associated samples and were qualified as estimated (UJ). (QC batch 83421)
24. The percent recoveries for antimony and zinc were outside the 75%-125% project acceptance criteria in QC samples LCBSB26[1][MSD] (166645-031) MS/MSD. The results for antimony and zinc in the associated samples were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83422)
25. The percent recoveries for aluminum, antimony, barium, copper, iron, lead, magnesium, manganese, selenium, thallium and vanadium were outside the 75%-125% project acceptance criteria in QC samples BAPSB04[1][MSD] (166682-007) MS/MSD. The amounts of aluminum, iron, magnesium, manganese and zinc present in the parent sample

- were greater than four times the amounts spiked, and qualification was not required. The detected and non-detected results for antimony, barium, copper, lead, selenium, thallium and vanadium in the associated samples were qualified as estimated (J-/UJ). (QC batch 83482)
26. The percent recoveries for aluminum, antimony, chromium, cobalt, iron, magnesium, manganese, nickel, selenium and zinc were outside the 75%-125% project acceptance criteria in QC samples BAPSB16[0.3][MSD] (166682-010) MS/MSD. The amounts of aluminum, iron and manganese present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected and non-detected results for antimony, chromium, cobalt, magnesium, nickel, selenium and zinc in the associated samples were qualified as estimated (J-/UJ). (QC batch 83482)
27. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples LCPSB10[2] (166668-032) MS/MSD. The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 83478)
28. The percent recoveries for aluminum, antimony, arsenic, cadmium, chromium, cobalt, iron, lead, magnesium, manganese, nickel, selenium, thallium, vanadium and zinc were outside the 75%-125% project acceptance criteria in QC samples BAPSB10[1][MSD] (166682-013) MS/MSD. The amounts of aluminum, iron and manganese present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected and non-detected results for antimony, arsenic, cadmium, chromium, cobalt, lead, magnesium, nickel, selenium, thallium, vanadium and zinc were qualified as estimated (UJ) and estimated with a low bias (J-). (QC batch 83485)
29. The percent recoveries for antimony were outside the 75%-125% project acceptance criteria in QC samples BAPSB11[3] (166716-001) MS/MSD. The results for antimony were non-detect in the associated samples and were qualified as estimated (UJ). (QC batch 83521)
30. The percent recovery for TCLP lead was outside the 75%-125% project acceptance criteria in QC sample CHPSB06[1] (167188-001) MS. The amount of lead present in the parent sample was greater than four times the amount spiked, and qualification was not required. (QC batch 84065)
31. The percent recovery for STLC lead was outside the 75%-125% project acceptance criteria in QC sample CHPSB06[1] (167188-001) MS. The amount of lead present in the parent sample was greater than four times the amount spiked, and qualification was not required. (QC batch 84099)
- See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery and relative percent difference failure.

H. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples.

I. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. ICP serial dilution failures associated with sample results less than fifty times the method detection limit did not require qualification, and are not noted in this report.
2. The percent difference for zinc failed the 10% difference acceptance criteria in the serial dilution of sample BAPSB01[4.5][MSD] (166560-016) at 33%. The detected and non-detected results for zinc in the associated samples were qualified as estimated (J/UJ). (QC batch 83258)
3. The percent difference for copper failed the 10% difference acceptance criteria in the serial dilution of sample DUP072403D (166561-022) at 17%. The detected and non-detected results for copper in the associated samples were qualified as estimated (J/UJ). (QC batch 83296)
4. The percent differences failed the 10% difference acceptance criteria for cobalt (11%), lead (12%), nickel (12%) and zinc (13%) in the serial dilution of sample BAPSB04[1][MSD] (166682-007). The detected and non-detected results for cobalt, lead, nickel and zinc in the associated samples were qualified as estimated (J/UJ). (QC batch 83482)

See Table 2 of this report for a summary of qualifications due to ICP serial dilution percent difference failure.

J. Compound Identification and Quantitation

No problems were observed with compound identification and quantitation. The reported values for all target metals in the level IV validated samples were recalculated and verified to match the values reported by the laboratory.

K. Field Duplicates

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than twice the reporting limit for those analytes with values at or near the detection limit. Thirty-one samples were collected in duplicate for the Presidio Trust Small Arms Firing Ranges sampling event.

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In field duplicates DUP072303B (166535-008) and LCPSB37[2] (166535-009), the RPD between the detected results failed the 50% acceptance criteria for barium (75%), copper (81%), manganese (60%) and lead (126%).

2. In field duplicates DUP072403A (166535-037) and LCBSB21[1] (166535-035), the RPD between the detected results failed the 50% acceptance criteria for lead at 128%.
3. In field duplicates DUP072403B (166535-046) and LCBSB24[1] (166535-045), the RPD between the detected results failed the 50% acceptance criteria for barium (136%), copper (179%) and lead (171%).
4. In field duplicates DUP072403C (166561-008) and LCBSB15[2] (166561-009), the RPD between the detected results failed the 50% acceptance criteria for copper (52%) and lead (100%).
5. In field duplicates DUP072803A (166599-005) and BAPSB17[1] (166599-004), the RPD between the detected results failed the 50% acceptance criteria for lead at 157%.
6. In field duplicates DUP072903A (166599-022) and CHPSB09[2] (166599-023), the RPD between the detected results failed the 50% acceptance criteria for lead at 67%.
7. In field duplicates DUP072903B (166599-027) and CHPSB10[2] (166599-026), the RPD between the detected results failed the 50% acceptance criteria for thallium at 100%.
8. In field duplicates DUP072903C (166599-031) and CHPSB16[2] (166599-033), the RPD between the detected results failed the 50% acceptance criteria for lead at 109%.
9. In field duplicates DUP072903D (166624-008) and CHPSB07[3] (166624-009), the RPD between the detected results failed the 50% acceptance criteria for copper (55%) and lead (111%).
10. In field duplicates DUP073003A (166624-029) and CHPSB11[1] (166624-030), the RPD between the detected results failed the 50% acceptance criteria for lead at 76%.
11. In field duplicates DUP073003C (166645-003) and LCBSB41[1] (166645-004), the RPD between the detected results failed the 50% acceptance criteria for lead at 62%.
12. In field duplicates DUP073103A (166645-023) and LCBSB36[1] (166645-022), the RPD between the detected results failed the 50% acceptance criteria for copper (53%), lead (70%) and zinc (72%).
13. In field duplicates DUP073103B (166645-030) and LCBSB30[1] (166645-029), the RPD between the detected results failed the 50% acceptance criteria for barium (52%), copper (62%) and lead (71%).
14. In field duplicates DUP073103D (166668-015) and LCPSB23[1] (166668-014), the RPD between the detected results failed the 50% acceptance criteria for copper (65%), lead (89%) and zinc (67%).
15. In field duplicates DUP080103C (166682-005) and BAPSB12[1] (166682-004), the RPD between the detected results failed the 50% acceptance criteria for aluminum (168%), iron (166%) and magnesium (156%).
16. In field duplicates DUP080103D (166682-009) and BAPSB04[1][MSD] (166682-007), the RPD between the detected results failed the 50% acceptance criteria for barium (86%), copper (65%), lead (135%) and zinc (90%).

17. In field duplicates DUP080103E (166652-012) and BAPSB16[1] (166652-011), the RPD between the detected results failed the 50% acceptance criteria for lead at 133%.
18. In field duplicates DUP080103F (166652-017) and BAPSB05[7] (166652-016), the RPD between the detected results failed the 50% acceptance criteria for lead at 62%.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sample non-homogeneity, sampling or laboratory technique, or method defects. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

SUMMARY

The attached Table 1 summarizes the site samples, laboratory sample IDs, sampling dates, analysis methods and sample types. This table also designates which samples received full (Level IV) data validation. The attached Table 2 summarizes the qualifications required for all samples included in this sampling event. The attached Table 3 summarizes the field duplicate sample results for all field duplicate samples included in this sampling event.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are unusable for all purposes. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory and full data validation, all other results are considered valid and usable for all purposes.

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," July 2002.

- U The analyte was analyzed for, but was not detected above the level of the reported value.
- J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.
- J+ The result is an estimated quantity, but the value may be biased high.
- J- The result is an estimated quantity, but the value may be biased low.
- R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte can not be verified.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
MGBSB16[1]	166460-001	21-Jul-03	Metals (6010B)*	C & T	S
MGBSB16[2]	166460-002	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB18[1]	166460-003	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB18[2]	166460-004	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB19[0.3]	166460-005	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB17[1]	166460-006	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB17[2]	166460-007	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB15[1]	166460-008	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB14[0.5]	166460-009	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB14[1]	166460-010	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB13[1]	166460-011	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB11[1]	166460-012	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB11[2]	166460-013	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB12[1]	166460-014	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB12[2]	166460-015	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB11[2]RBMGBSB06	166460-016	21-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
MGBSB06[1]	166460-017	22-Jul-03	Metals (6010B)*	C & T	S
MGBSB06[2]	166460-018	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB05[1]	166460-019	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB05[2]	166460-020	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB04[1]	166460-021	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (1)
DUP072203A	166460-022	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (1)

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
MGBSB04[2]	166460-023	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB03[1]	166460-024	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB03[2]	166460-025	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB02[1]	166494-001	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB02[2]	166494-002	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB02[1]RB[2]	166494-003	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
MGBSB10[1]	166494-004	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB10[2]	166494-005	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB08[1]	166494-006	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB08[2]	166494-007	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB09[1]	166494-008	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB09[2]	166494-009	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB07[1]	166494-010	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
MGBSB07[2]	166494-011	22-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB34[1]	166494-012	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB34[2]	166494-013	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (2)
DUP072303A	166494-014	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (2)
LCPSB35[1]	166494-015	23-Jul-03	Metals (6010B)*	C & T	S
LCPSB35[2]	166494-016	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB32[1]	166494-017	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB32[2]	166494-018	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB30[1]	166494-019	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCPSB30[2]	166494-020	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB29[1]	166535-001	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB29[2]	166535-002	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB28[1]	166535-003	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB28[2]	166535-004	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB36[1]	166535-005	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB36[2]	166535-006	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB37[1]	166535-007	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072303B	166535-008	23-Jul-03	Metals (6010B)*	C & T	FD (3)
LCPSB37[2]	166535-009	23-Jul-03	Metals (6010B)*	C & T	S (3)
LCPSB17[1]	166535-010	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB17[2]	166535-011	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB16[1]	166535-012	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB16[2]	166535-013	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB13[1][MSD]	166535-014	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB13[2]	166535-015	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB11[2]	166535-016	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB11[1]	166535-017	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB12[1]	166535-018	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB12[2]	166535-019	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB18[0.3]	166535-020	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB18[1]	166535-021	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCPSB19[0.3]	166535-022	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB19[1]	166535-023	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB27[1]	166535-024	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB27[2]	166535-025	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB21[1]RBLCPB20[1]	166535-026	23-Jul-03	Metals (6010B)*	C & T	EB
LCPSB21[1]	166535-027	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB21[2.5]	166535-028	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB20[1]	166535-029	23-Jul-03	Metals (6010B)*	C & T	S
LCPSB20[2.5]	166535-030	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB24[1]	166535-031	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB24[2.5]	166535-032	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB25[1.5]	166535-033	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB25[2.5]	166535-034	23-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB21[1]	166535-035	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (4)
LCBSB21[2]	166535-036	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072403A	166535-037	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (4)
LCBSB19[1]	166535-038	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB19[2]	166535-039	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB35[1]	166535-040	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB37[1]	166535-041	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB37[0.3]	166535-042	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB23[1]	166535-043	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCBSB23[2]	166535-044	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB24[1]	166535-045	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (5)
DUP072403B	166535-046	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (5)
LCBSB24[2.5]	166535-047	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB33[2]	166535-048	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB33[1]	166535-049	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB35[2]	166535-050	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB32[0.3][MSD]	166535-051	24-Jul-03	Metals (6010B)*	C & T	S
LCBSB32[1]	166535-052	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB31[0.3]	166535-053	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB31[1]	166535-054	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB29[0.3]	166535-055	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB29[1]	166535-056	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB28[0.3]	166535-057	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB28[1]	166535-058	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB27[0.3]	166535-059	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB27[1]	166535-060	24-Jul-03	Metals (6010B)*	C & T	S
BAPSB15[0.3]	166560-001	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB15[1]	166560-002	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB11[2]	166560-004	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB09[0.3]	166560-005	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB09[1]	166560-006	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
BAPSB06[5.5]	166560-013	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB01[4.5][MSD]	166560-016	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB01[5.5]	166560-017	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072503B	166560-019	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (6)
BAPSB02[3]	166560-020	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (6)
BAPSB02[5.5]	166560-021	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB02[1]RB[3]	166560-022	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCBSB13[0.3]	166561-001	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB13[1]	166561-002	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB14[0.3]	166561-003	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB14[1]	166561-004	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB16[0.3]	166561-005	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB16[1]	166561-006	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB15[1]	166561-007	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072403C	166561-008	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (7)
LCBSB15[2]	166561-009	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (7)
LCBSB10[0.5]	166561-010	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB10[1.5]	166561-011	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB08[0.3]	166561-012	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB08[1]	166561-013	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB07[1]	166561-014	24-Jul-03	Metals (6010B)*	C & T	S
LCBSB07[2]	166561-015	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCBSB11[0.3]	166561-016	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB11[1]	166561-017	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB05[0.3]	166561-018	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB05[1]	166561-019	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB02[1]	166561-020	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (8)
LCBSB02[2.5]	166561-021	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072403D	166561-022	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (8)
LCBSB03[1]RB[2.5]	166561-023	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCBSB03[1]	166561-024	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB03[2.5]	166561-025	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB06[1]	166561-026	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB06[2]	166561-027	24-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DW072503A	166561-028	25-Jul-03	Metals (6010B)*	C & T	SB
DUP072503A	166561-029	25-Jul-03	Metals (6010B)*	C & T	FD (9)
CHPSB25[1]	166561-030	25-Jul-03	Metals (6010B)*	C & T	S (9)
CHPSB25[2]	166561-031	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB25[3]	166561-032	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB26[1]	166561-033	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB26[3]	166561-034	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB24[0.3]	166561-036	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB24[1]	166561-037	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB24[2.5]	166561-038	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
CHPSB23[0.3]	166561-039	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB23[1]	166561-040	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB23[2.5]	166561-041	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB22[0.3]	166561-042	25-Jul-03	Metals (6010B)*	C & T	S
CHPSB21[1]	166561-043	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB21[2.5]	166561-044	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB21[0.3]	166561-045	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB22[1]	166561-046	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB22[2.5]	166561-047	25-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB13[0.3]	166566-004	28-Jul-03	Metals (6010B)*	C & T	S
BAPSB13[1]	166566-005	28-Jul-03	Metals (6010B)*	C & T	S
BAPSB18[0.3]	166599-001	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB18[1]	166599-002	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB17[0.3][MSD]	166599-003	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB17[1][MSD]	166599-004	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (10)
DUP072803A	166599-005	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (10)
BAPSB14[0.3]	166599-006	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB14[1][MSD]	166599-007	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB05[0.3]	166599-008	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB05[1]	166599-009	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB04[0.3]	166599-010	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB04[1]	166599-011	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCPSB01[0.3]	166599-012	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB01[1]	166599-013	28-Jul-03	Metals (6010B)*	C & T	S
LCPSB03[0.3]RB[1]	166599-014	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCPSB03[0.3]	166599-015	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB03[1]	166599-016	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB02[1]	166599-017	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB02[0.3]	166599-018	28-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB18[0.3]	166599-019	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB18[1]	166599-020	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB18[2]	166599-021	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072903A	166599-022	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (11)
CHPSB09[2]	166599-023	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (11)
CHPSB09[3]	166599-024	29-Jul-03	Metals (6010B)*	C & T	S
CHPSB09[4]	166599-025	29-Jul-03	Metals (6010B)*	C & T	S
CHPSB10[2]	166599-026	29-Jul-03	Metals (6010B)*	C & T	S (12)
DUP072903B	166599-027	29-Jul-03	Metals (6010B)*	C & T	FD (12)
CHPSB10[3]	166599-028	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB10[4]	166599-029	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB16[0.3]	166599-030	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072903C	166599-031	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (13)
CHPSB16[1]	166599-032	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB16[2]	166599-033	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (13)

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
CHPSB17[2]	166624-001	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB17[3]	166624-002	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB15[1]	166624-003	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB15[2]	166624-004	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB15[3]	166624-005	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB07[1]	166624-006	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB07[2]	166624-007	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP072903D	166624-008	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (14)
CHPSB07[3]	166624-009	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (14)
CHPSB07[1]RB[2]	166624-010	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
CHPSB08[1]	166624-011	29-Jul-03	Metals (6010B)*	C & T	S
CHPSB08[2]	166624-012	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB14[1]	166624-013	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB14[2]	166624-014	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB14[3]	166624-015	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB05[1]	166624-016	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB06[1]	166624-017	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB06[2]	166624-018	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB06[3]	166624-019	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB19[2]	166624-020	29-Jul-03	Metals (6010B)*	C & T	S
CHPSB19[3]	166624-021	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB19[4]	166624-022	29-Jul-03	Metals (6010B)*	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
CHPSB20[1]	166624-023	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB20[2]	166624-024	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB20[3]	166624-025	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB27[1]	166624-026	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB27[2][MSD]	166624-027	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB27[3]	166624-028	29-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP073003A	166624-029	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (15)
CHPSB11[1]	166624-030	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (15)
CHPSB11[2]	166624-031	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB11[3][MSD]	166624-032	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB13[1]	166624-033	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB13[2]	166624-034	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB13[3]	166624-035	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB12[1]	166624-036	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB12[2]	166624-037	30-Jul-03	Metals (6010B)*	C & T	S
CHPSB12[3]	166624-038	30-Jul-03	Metals (6010B)*	C & T	S
CHPSB03[0.3]	166624-039	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB03[1]	166624-040	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB02[0.3]	166624-041	30-Jul-03	Metals (6010B)*	C & T	S
CHPSB02[1]	166624-042	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB02[2][MSD]	166624-043	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB01[0.3]	166624-044	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
CHPSB01[1]	166624-045	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB01[2]	166624-046	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB03[2]	166645-001	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (16)
DUP073003B	166645-002	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (16)
DUP073003C	166645-003	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (17)
LCBSB41[1]	166645-004	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (17)
LCBSB41[0.3]	166645-005	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB41[0.3]RB[1]	166645-006	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCBSB39[0.3]	166645-007	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB39[1][MSD]	166645-008	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB42[0.3]	166645-009	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB42[1]	166645-010	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB40[0.3]	166645-011	30-Jul-03	Metals (6010B)*	C & T	S
LCBSB40[1]	166645-012	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB20[1]	166645-013	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (18)
LCBSB20[2][MSD]	166645-014	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP073003D	166645-015	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (18)
DUP073003E	166645-016	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (19)
LCBSB18[1]	166645-017	30-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (19)
LCBSB18[2]	166645-018	30-Jul-03	Metals (6010B)*	C & T	S
LCBSB17[0.3]	166645-019	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB17[1]	166645-020	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCBSB36[0.3]	166645-021	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB36[1]	166645-022	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (20)
DUP073103A	166645-023	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (20)
LCBSB38[0.3]	166645-024	31-Jul-03	Metals (6010B)*	C & T	S
LCBSB38[1][MSD]	166645-025	31-Jul-03	Metals (6010B)*	C & T	S
LCBSB34[0.3]	166645-026	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB34[1]	166645-027	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB30[0.3]	166645-028	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB30[1]	166645-029	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (21)
DUP073103B	166645-030	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (21)
LCBSB26[1][MSD]	166645-031	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB26[2]	166645-032	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (22)
DUP073103C	166645-033	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (22)
LCBSB25[1]	166645-034	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB25[2]	166645-035	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB22[1]	166668-001	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB22[2]	166668-002	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB09[0.3]	166668-003	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB09[1]	166668-004	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB04[1]	166668-005	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB04[0.3]	166668-006	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DW073103	166668-007	31-Jul-03	Metals (6010B)*	C & T	S

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Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCBSB12[1]	166668-008	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB12[0.3]	166668-009	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCBSB12[0.3]RB[1]	166668-010	31-Jul-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCBSB01[0.3]	166668-011	31-Jul-03	Metals (6010B)*	C & T	S
LCBSB01[1]	166668-012	31-Jul-03	Metals (6010B)*	C & T	S
LCPSB23[1]	166668-014	31-Jul-03	Metals (6010B)*	C & T	S (23)
DUP073103D	166668-015	31-Jul-03	Metals (6010B)*	C & T	FD (23)
LCPSB22[1]	166668-016	31-Jul-03	Metals (6010B)*	C & T	S
LCPSB26[0.3]	166668-018	31-Jul-03	Metals (6010B)*	C & T	S
LCPSB26[1]	166668-019	31-Jul-03	Metals (6010B)*	C & T	S
LCPSB15[1]	166668-020	31-Jul-03	Metals (6010B)*	C & T	S (24)
LCPSB15[2]	166668-021	31-Jul-03	Metals (6010B)*	C & T	S
DUP073103E	166668-022	31-Jul-03	Metals (6010B)*	C & T	FD (24)
LCPSB14[1]	166668-023	1-Aug-03	Metals (6010B)*	C & T	S
LCPSB14[2]	166668-024	1-Aug-03	Metals (6010B)*	C & T	S (25)
DUP080103A	166668-025	1-Aug-03	Metals (6010B)*	C & T	FD (25)
LCPSB09[1]	166668-026	1-Aug-03	Metals (6010B)*	C & T	S
LCPSB09[2]	166668-027	1-Aug-03	Metals (6010B)*	C & T	S
DUP080103B	166668-028	1-Aug-03	Metals (6010B)*	C & T	FD (26)
LCPSB08[1]	166668-029	1-Aug-03	Metals (6010B)*	C & T	S (26)
LCPSB08[2]	166668-030	1-Aug-03	Metals (6010B)*	C & T	S
LCPSB10[1]	166668-031	1-Aug-03	Metals (6010B)*	C & T	S

Table 1
Sample Summary
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Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCPSB10[2][MSD]	166668-032	1-Aug-03	Metals (6010B)*	C & T	S
BAPSB03R[5.5]	166682-001	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB07[5.5]	166682-003	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB12[1]	166682-004	1-Aug-03	Metals (6010B)*	C & T	S (27)
DUP080103C	166682-005	1-Aug-03	Metals (6010B)*	C & T	FD (27)
BAPSB12[3]	166682-006	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB04[1][MSD]	166682-007	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (28)
BAPSB04[3]	166682-008	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
DUP080103D	166682-009	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (28)
BAPSB16[0.3][MSD]	166682-010	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB16[1]	166682-011	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (29)
DUP080103E	166682-012	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (29)
BAPSB10[1][MSD]	166682-013	1-Aug-03	Metals (6010B)*	C & T	S
BAPSB10[1]RB[2]	166682-014	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
BAPSB10[2]	166682-015	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB05[7][MSD]	166682-016	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (30)
DUP080103F	166682-017	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (30)
BAPSB05[8.5]	166682-018	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB03R[6.5]	166682-019	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB11[3]	166716-001	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB08R[6.5]	166716-002	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
BAPSB08R[7.5]	166716-003	1-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
LCPSB33[1]	166716-004	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB33[2]	166716-005	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S (31)
DUP080403A	166716-006	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	FD (31)
LCPSB31[2]	166716-007	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB31[1]	166716-008	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB[1]RB[2]	166716-009	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	EB
LCPSB06[0.3]	166716-010	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB06[1]	166716-011	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB07[0.3]	166716-012	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
LCPSB07[1]	166716-013	4-Aug-03	Antimony, Barium, Copper, Lead, Zinc (6010B)	C & T	S
CHPSB06[1]	1667188-001	29-Jul-03	TCLP Lead (6010B), STLC Lead (6010B)	C & T	L
CHPSB07[1]	1667188-002	29-Jul-03	TCLP Lead (6010B), STLC Lead (6010B)	C & T	L
CHPSB05[1]	1667188-003	29-Jul-03	TCLP Lead (6010B), STLC Lead (6010B)	C & T	L
CHPSB02[0.3]	1667188-004	30-Jul-03	STLC Lead (6010B)	C & T	L
CHPSB03[0.3]	1667188-005	30-Jul-03	STLC Lead (6010B)	C & T	L
CHPSB07[2]	1667188-006	29-Jul-03	STLC Lead (6010B)	C & T	L
CHPSB07[3]	1667188-007	29-Jul-03	STLC Lead (6010B)	C & T	L
BAPSB03R[5.5]	1667188-008	1-Aug-03	STLC Lead (6010B)	C & T	L

Bold typeface indicates samples that received full (Level IV) data validation

C & T: Curtis & Tompkins, Ltd., Berkeley, CA

***Metals (6010B): Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Se, Ag, Tl, V, Zn**

FD: Field duplicate of previous numbered sample, (1), (2), etc.

Table 1
Sample Summary
The Presidio Small Arms Firing Ranges Site

Project Sample ID	Laboratory ID	Sampling Date	Analysis/Method	Laboratory	Sample Type
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EB: Equipment blank

S: Soil

L: Leachate

STLC: Soluble Threshold Limit Concentration

TCLP: Toxicity Characteristic Leaching Procedure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
MGBSB16[1]	166460-001	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB16[1]	166460-001	6010B	Magnesium	J+	MS/MSD percent recovery failure
MGBSB16[2]	166460-002	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB18[1]	166460-003	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB18[2]	166460-004	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB19[0.3]	166460-005	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB17[1]	166460-006	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB17[2]	166460-007	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB15[1]	166460-008	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB14[0.5]	166460-009	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB14[1]	166460-010	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB13[1]	166460-011	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB11[1]	166460-012	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB11[2]	166460-013	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB12[1]	166460-014	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB12[2]	166460-015	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB06[1]	166460-017	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB06[1]	166460-017	6010B	Magnesium	J+	MS/MSD percent recovery failure
MGBSB06[2]	166460-018	6010B	Antimony	R	MS/MSD percent recovery <30%

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
MGBSB05[1]	166460-019	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB05[2]	166460-020	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB04[1]	166460-021	6010B	Antimony	R	MS/MSD percent recovery <30%
DUP072203A	166460-022	6010B	Antimony	R	MS/MSD percent recovery <30%
DUP072203A	166460-022	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB04[2]	166460-023	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB04[2]	166460-023	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB03[1]	166460-024	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB03[1]	166460-024	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB03[2]	166460-025	6010B	Antimony	R	MS/MSD percent recovery <30%
MGBSB03[2]	166460-025	6010B	Zinc	J-	MS/MSD percent recovery failure
MGSB02[1]	166494-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGSB02[1]	166494-001	6010B	Copper	J-	MS/MSD percent recovery failure
MGSB02[1]	166494-001	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB02[2]	166494-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB02[2]	166494-002	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB02[2]	166494-002	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB10[1]	166494-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB10[1]	166494-004	6010B	Copper	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
MGBSB10[1]	166494-004	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB10[2]	166494-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB10[2]	166494-005	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB10[2]	166494-005	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB08[1]	166494-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB08[1]	166494-006	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB08[1]	166494-006	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB08[2]	166494-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB08[2]	166494-007	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB09[1]	166494-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB09[1]	166494-008	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB09[1]	166494-008	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB09[2]	166494-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB09[2]	166494-009	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB09[2]	166494-009	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB07[1]	166494-010	6010B	Antimony	UJ	MS/MSD percent recovery failure
MGBSB07[1]	166494-010	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB07[1]	166494-010	6010B	Zinc	J-	MS/MSD percent recovery failure
MGBSB07[2]	166494-011	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
MGBSB07[2]	166494-011	6010B	Copper	J-	MS/MSD percent recovery failure
MGBSB07[2]	166494-011	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB34[1]	166494-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB34[1]	166494-012	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB34[2]	166494-013	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB34[2]	166494-013	6010B	Copper	J-	MS/MSD percent recovery failure
DUP072303A	166494-014	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072303A	166494-014	6010B	Copper	J-	MS/MSD percent recovery failure
DUP072303A	166494-014	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB35[1]	166494-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB35[1]	166494-015	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB35[1]	166494-015	6010B	Nickel	J-	MS/MSD percent recovery failure
LCPSB35[1]	166494-015	6010B	Selenium	J-	MS/MSD percent recovery failure
LCPSB35[1]	166494-015	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB35[2]	166494-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB35[2]	166494-016	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB32[1]	166494-017	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB32[1]	166494-017	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB32[1]	166494-017	6010B	Zinc	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCPSB32[2]	166494-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB32[2]	166494-018	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB30[1]	166494-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB30[1]	166494-019	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB30[1]	166494-019	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB30[2]	166494-020	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB30[2]	166494-020	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB29[1]	166535-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB29[2]	166535-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB28[1]	166535-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB28[2]	166535-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB36[1]	166535-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB36[2]	166535-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB37[1]	166535-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072303B	166535-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072303B	166535-008	6010B	Magnesium	J+	MS/MSD percent recovery failure
LCPSB37[2]	166535-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB37[2]	166535-009	6010B	Magnesium	J+	MS/MSD percent recovery failure
LCPSB17[1]	166535-010	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCPSB17[2]	166535-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB16[1]	166535-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB16[2]	166535-013	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB13[1][MSD]	166535-014	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB13[2]	166535-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB11[2]	166535-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB11[1]	166535-017	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB12[1]	166535-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB12[2]	166535-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB18[0.3]	166535-020	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB18[1]	166535-021	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB18[1]	166535-021	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB19[0.3]	166535-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB19[0.3]	166535-022	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB19[1]	166535-023	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB19[1]	166535-023	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB27[1]	166535-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB27[1]	166535-024	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB27[2]	166535-025	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCPSB27[2]	166535-025	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB21[1]	166535-027	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB21[1]	166535-027	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB21[1]	166535-027	6010B	Magnesium	J+	MS/MSD percent recovery failure
LCPSB21[2.5]	166535-028	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB21[2.5]	166535-028	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB20[1]	166535-029	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB20[1]	166535-029	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB20[1]	166535-029	6010B	Magnesium	J+	MS/MSD percent recovery failure
LCPSB20[2.5]	166535-030	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB20[2.5]	166535-030	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB24[1]	166535-031	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB24[1]	166535-031	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB24[2.5]	166535-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB24[2.5]	166535-032	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB25[1.5]	166535-033	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB25[1.5]	166535-033	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB25[2.5]	166535-034	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB25[2.5]	166535-034	6010B	Copper	J+	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB21[1]	166535-035	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB21[1]	166535-035	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB21[2]	166535-036	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB21[2]	166535-036	6010B	Copper	J+	MS/MSD percent recovery failure
DUP072403A	166535-037	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072403A	166535-037	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB19[1]	166535-038	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB19[1]	166535-038	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB19[2]	166535-039	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB19[2]	166535-039	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB35[1]	166535-040	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB35[1]	166535-040	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB37[1]	166535-041	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB37[1]	166535-041	6010B	Copper	J+	MS/MSD percent recovery failure
LCBSB37[0.3]	166535-042	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB37[0.3]	166535-042	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB23[1]	166535-043	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB23[1]	166535-043	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB23[2]	166535-044	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB23[2]	166535-044	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB24[1]	166535-045	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB24[1]	166535-045	6010B	Zinc	J+	MS/MSD percent recovery failure
DUP072403B	166535-046	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072403B	166535-046	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB24[2.5]	166535-047	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB24[2.5]	166535-047	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB33[2]	166535-048	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB33[2]	166535-048	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB33[1]	166535-049	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB33[1]	166535-049	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB35[2]	166535-050	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB35[2]	166535-050	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB32[0.3][MSD]	166535-051	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB32[0.3][MSD]	166535-051	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB32[1]	166535-052	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB32[1]	166535-052	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB31[0.3]	166535-053	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB31[0.3]	166535-053	6010B	Zinc	J+	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB31[1]	166535-054	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB31[1]	166535-054	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB29[0.3]	166535-055	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB29[0.3]	166535-055	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB29[1]	166535-056	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB29[1]	166535-056	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB28[0.3]	166535-057	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB28[0.3]	166535-057	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB28[1]	166535-058	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB28[1]	166535-058	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB27[0.3]	166535-059	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB27[0.3]	166535-059	6010B	Zinc	J+	MS/MSD percent recovery failure
LCBSB27[1]	166535-060	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB27[1]	166535-060	6010B	Zinc	J+	MS/MSD percent recovery failure
BAPSB15[0.3]	166560-001	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB15[0.3]	166560-001	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB15[1]	166560-002	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB15[1]	166560-002	6010B	Zinc	J	MS/MSD %R failure, Serial dilution %D failure
BAPSB11[2]	166560-004	6010B	Antimony	R	MS/MSD percent recovery <30%

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB11[2]	166560-004	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB09[0.3]	166560-005	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB09[0.3]	166560-005	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB09[1]	166560-006	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB09[1]	166560-006	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB06[5.5]	166560-013	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB06[5.5]	166560-013	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB01[4.5][MSD]	166560-016	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB01[4.5][MSD]	166560-016	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB01[5.5]	166560-017	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB01[5.5]	166560-017	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
DUP072503B	166560-019	6010B	Antimony	R	MS/MSD percent recovery <30%
DUP072503B	166560-019	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB02[3]	166560-020	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB02[3]	166560-020	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB02[5.5]	166560-021	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB02[5.5]	166560-021	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
DUP072403D	166561-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072403D	166561-022	6010B	Copper	J	Serial dilution percent difference failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
DUP072403D	166561-022	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB03[1]	166561-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB03[1]	166561-024	6010B	Copper	J	Serial dilution percent difference failure
LCBSB03[1]	166561-024	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB03[2.5]	166561-025	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB03[2.5]	166561-025	6010B	Copper	J	Serial dilution percent difference failure
LCBSB03[2.5]	166561-025	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB06[1]	166561-026	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB06[1]	166561-026	6010B	Copper	J	Serial dilution percent difference failure
LCBSB06[1]	166561-026	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB06[2]	166561-027	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB06[2]	166561-027	6010B	Copper	J	Serial dilution percent difference failure
LCBSB06[2]	166561-027	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB25[2]	166561-031	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB25[2]	166561-031	6010B	Copper	J	Serial dilution percent difference failure
CHPSB25[2]	166561-031	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB25[3]	166561-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB25[3]	166561-032	6010B	Copper	J	Serial dilution percent difference failure
CHPSB25[3]	166561-032	6010B	Zinc	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB26[1]	166561-033	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB26[1]	166561-033	6010B	Copper	J	Serial dilution percent difference failure
CHPSB26[1]	166561-033	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB26[3]	166561-034	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB26[3]	166561-034	6010B	Copper	J	Serial dilution percent difference failure
CHPSB26[3]	166561-034	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB24[0.3]	166561-036	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB24[0.3]	166561-036	6010B	Copper	J	Serial dilution percent difference failure
CHPSB24[0.3]	166561-036	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB24[1]	166561-037	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB24[1]	166561-037	6010B	Copper	J	Serial dilution percent difference failure
CHPSB24[1]	166561-037	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB24[2.5]	166561-038	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB24[2.5]	166561-038	6010B	Copper	J	Serial dilution percent difference failure
CHPSB24[2.5]	166561-038	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB23[0.3]	166561-039	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB23[0.3]	166561-039	6010B	Copper	J	Serial dilution percent difference failure
CHPSB23[0.3]	166561-039	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB23[1]	166561-040	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB23[1]	166561-040	6010B	Copper	J	Serial dilution percent difference failure
CHPSB23[1]	166561-040	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB23[2.5]	166561-041	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB23[2.5]	166561-041	6010B	Copper	J	Serial dilution percent difference failure
CHPSB23[2.5]	166561-041	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB21[1]	166561-043	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB21[1]	166561-043	6010B	Copper	J	Serial dilution percent difference failure
CHPSB21[1]	166561-043	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB21[2.5]	166561-044	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB21[2.5]	166561-044	6010B	Copper	J	Serial dilution percent difference failure
CHPSB21[2.5]	166561-044	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB21[0.3]	166561-045	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB21[0.3]	166561-045	6010B	Copper	J	Serial dilution percent difference failure
CHPSB21[0.3]	166561-045	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB22[1]	166561-046	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB22[1]	166561-046	6010B	Copper	J	Serial dilution percent difference failure
CHPSB22[1]	166561-046	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB22[2.5]	166561-047	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB22[2.5]	166561-047	6010B	Copper	J	Serial dilution percent difference failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB22[2.5]	166561-047	6010B	Zinc	J-	MS/MSD percent recovery failure
BAPSB13[0.3]	166566-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB13[1]	166566-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB18[0.3]	166599-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB18[0.3]	166599-001	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB18[0.3]	166599-001	6010B	Lead	J-	MS/MSD %R and RPD failure
BAPSB18[1]	166599-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB18[1]	166599-002	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB18[1]	166599-002	6010B	Lead	J-	MS/MSD %R and RPD failure
BAPSB17[0.3][MSD]	166599-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB17[0.3][MSD]	166599-003	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB17[0.3][MSD]	166599-003	6010B	Lead	J-	MS/MSD %R and RPD failure
BAPSB17[1][MSD]	166599-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB17[1][MSD]	166599-004	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB17[1][MSD]	166599-004	6010B	Lead	J-	MS/MSD %R and RPD failure
DUP072803A	166599-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072803A	166599-005	6010B	Copper	J-	MS/MSD percent recovery failure
DUP072803A	166599-005	6010B	Lead	J-	MS/MSD %R and RPD failure
BAPSB14[0.3]	166599-006	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB14[0.3]	166599-006	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB14[0.3]	166599-006	6010B	Lead	J-	MS/MSD %R and RPD failure
BAPSB14[1][MSD]	166599-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB05[0.3]	166599-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB05[0.3]	166599-008	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB05[0.3]	166599-008	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB05[1]	166599-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB05[1]	166599-009	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB05[1]	166599-009	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB04[0.3]	166599-010	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB04[0.3]	166599-010	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB04[0.3]	166599-010	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB04[1]	166599-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB04[1]	166599-011	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB04[1]	166599-011	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB01[0.3]	166599-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB01[0.3]	166599-012	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB01[0.3]	166599-012	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB01[1]	166599-013	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCPSB01[1]	166599-013	6010B	Copper	J+	MS/MSD percent recovery failure
LCPSB03[0.3]	166599-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB03[0.3]	166599-015	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB03[0.3]	166599-015	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB03[1]	166599-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB03[1]	166599-016	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB03[1]	166599-016	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB02[1]	166599-017	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB02[1]	166599-017	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB02[1]	166599-017	6010B	Lead	J-	MS/MSD %R and RPD failure
LCPSB02[0.3]	166599-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB02[0.3]	166599-018	6010B	Copper	J-	MS/MSD percent recovery failure
LCPSB02[0.3]	166599-018	6010B	Lead	J-	MS/MSD %R and RPD failure
CHPSB18[0.3]	166599-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB18[0.3]	166599-019	6010B	Copper	J-	MS/MSD percent recovery failure
CHPSB18[0.3]	166599-019	6010B	Lead	J-	MS/MSD %R and RPD failure
CHPSB18[1]	166599-020	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB18[1]	166599-020	6010B	Copper	J-	MS/MSD percent recovery failure
CHPSB18[1]	166599-020	6010B	Lead	J-	MS/MSD %R and RPD failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB18[2]	166599-021	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB18[2]	166599-021	6010B	Copper	J-	MS/MSD percent recovery failure
CHPSB18[2]	166599-021	6010B	Lead	J-	MS/MSD %R and RPD failure
DUP072903A	166599-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072903A	166599-022	6010B	Copper	J-	MS/MSD percent recovery failure
DUP072903A	166599-022	6010B	Lead	J-	MS/MSD %R and RPD failure
CHPSB09[2]	166599-023	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB09[2]	166599-023	6010B	Copper	J-	MS/MSD percent recovery failure
CHPSB09[2]	166599-023	6010B	Lead	J-	MS/MSD %R and RPD failure
CHPSB09[3]	166599-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB09[3]	166599-024	6010B	Copper	J+	MS/MSD percent recovery failure
CHPSB09[4]	166599-025	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB09[4]	166599-025	6010B	Copper	J+	MS/MSD percent recovery failure
CHPSB10[2]	166599-026	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB10[2]	166599-026	6010B	Copper	J+	MS/MSD percent recovery failure
DUP072903B	166599-027	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072903B	166599-027	6010B	Copper	J+	MS/MSD percent recovery failure
CHPSB10[3]	166599-028	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB10[4]	166599-029	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB16[0.3]	166599-030	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072903C	166599-031	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB16[1]	166599-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB16[2]	166599-033	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB17[2]	166624-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB17[2]	166624-001	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB17[2]	166624-001	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB17[3]	166624-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB17[3]	166624-002	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB17[3]	166624-002	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB15[1]	166624-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB15[1]	166624-003	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB15[1]	166624-003	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB15[2]	166624-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB15[2]	166624-004	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB15[2]	166624-004	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB15[3]	166624-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB15[3]	166624-005	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB15[3]	166624-005	6010B	Zinc	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB07[1]	166624-006	6010B	Antimony	J-	MS/MSD percent recovery failure
CHPSB07[1]	166624-006	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB07[1]	166624-006	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB07[2]	166624-007	6010B	Antimony	J-	MS/MSD percent recovery failure
CHPSB07[2]	166624-007	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB07[2]	166624-007	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP072903D	166624-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP072903D	166624-008	6010B	Barium	J-	MS/MSD percent recovery failure
DUP072903D	166624-008	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB07[3]	166624-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB07[3]	166624-009	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB07[3]	166624-009	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB08[1]	166624-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB08[2]	166624-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB08[2]	166624-012	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB08[2]	166624-012	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB14[1]	166624-013	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB14[1]	166624-013	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB14[1]	166624-013	6010B	Zinc	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB14[2]	166624-014	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB14[2]	166624-014	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB14[2]	166624-014	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB14[3]	166624-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB14[3]	166624-015	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB14[3]	166624-015	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB05[1]	166624-016	6010B	Antimony	J-	MS/MSD percent recovery failure
CHPSB05[1]	166624-016	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB05[1]	166624-016	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB06[1]	166624-017	6010B	Antimony	J-	MS/MSD percent recovery failure
CHPSB06[1]	166624-017	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB06[1]	166624-017	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB06[2]	166624-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB06[2]	166624-018	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB06[2]	166624-018	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB06[3]	166624-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB06[3]	166624-019	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB06[3]	166624-019	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB19[2]	166624-020	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB19[3]	166624-021	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB19[3]	166624-021	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB19[3]	166624-021	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB19[4]	166624-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB20[1]	166624-023	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB20[1]	166624-023	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB20[1]	166624-023	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB20[2]	166624-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB20[3]	166624-025	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB27[1]	166624-026	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB27[2][MSD]	166624-027	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB27[2][MSD]	166624-027	6010B	Barium	J-	MS/MSD percent recovery failure
CHPSB27[2][MSD]	166624-027	6010B	Zinc	J-	MS/MSD percent recovery failure
CHPSB27[3]	166624-028	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073003A	166624-029	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB11[1]	166624-030	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB11[2]	166624-031	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB11[3][MSD]	166624-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB13[1]	166624-033	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
CHPSB13[2]	166624-034	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB13[3]	166624-035	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB12[1]	166624-036	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB12[2]	166624-037	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB12[3]	166624-038	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB03[0.3]	166624-039	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB03[1]	166624-040	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB02[0.3]	166624-041	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB02[1]	166624-042	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB02[2][MSD]	166624-043	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB01[0.3]	166624-044	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB01[1]	166624-045	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB01[2]	166624-046	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB03[2]	166645-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
CHPSB03[2]	166645-001	6010B	Lead	J+	MS/MSD %R and RPD failure
DUP073003B	166645-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073003B	166645-002	6010B	Lead	J+	MS/MSD %R and RPD failure
DUP073003C	166645-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073003C	166645-003	6010B	Lead	J+	MS/MSD %R and RPD failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB41[1]	166645-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB41[1]	166645-004	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB41[0.3]	166645-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB41[0.3]	166645-005	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB39[0.3]	166645-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB39[0.3]	166645-007	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB39[1][MSD]	166645-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB39[1][MSD]	166645-008	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB42[0.3]	166645-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB42[0.3]	166645-009	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB42[1]	166645-010	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB42[1]	166645-010	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB40[0.3]	166645-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB40[0.3]	166645-011	6010B	Magnesium	J-	MS/MSD percent recovery failure
LCBSB40[0.3]	166645-011	6010B	Manganese	J-	MS/MSD percent recovery failure
LCBSB40[1]	166645-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB40[1]	166645-012	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB20[1]	166645-013	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB20[1]	166645-013	6010B	Lead	J+	MS/MSD %R and RPD failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB20[2][MSD]	166645-014	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB20[2][MSD]	166645-014	6010B	Lead	J+	MS/MSD %R and RPD failure
DUP073003D	166645-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073003D	166645-015	6010B	Lead	J+	MS/MSD %R and RPD failure
DUP073003E	166645-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073003E	166645-016	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB18[1]	166645-017	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB18[1]	166645-017	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB18[2]	166645-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB18[2]	166645-018	6010B	Magnesium	J-	MS/MSD percent recovery failure
LCBSB18[2]	166645-018	6010B	Manganese	J-	MS/MSD percent recovery failure
LCBSB17[0.3]	166645-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB17[0.3]	166645-019	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB17[1]	166645-020	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB17[1]	166645-020	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB36[0.3]	166645-021	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB36[0.3]	166645-021	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB36[1]	166645-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB36[1]	166645-022	6010B	Lead	J+	MS/MSD %R and RPD failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
DUP073103A	166645-023	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073103A	166645-023	6010B	Lead	J+	MS/MSD %R and RPD failure
LCBSB38[0.3]	166645-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB38[0.3]	166645-024	6010B	Magnesium	J-	MS/MSD percent recovery failure
LCBSB38[0.3]	166645-024	6010B	Manganese	J-	MS/MSD percent recovery failure
LCBSB38[1][MSD]	166645-025	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB38[1][MSD]	166645-025	6010B	Magnesium	J-	MS/MSD percent recovery failure
LCBSB38[1][MSD]	166645-025	6010B	Manganese	J-	MS/MSD percent recovery failure
LCBSB34[0.3]	166645-026	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB34[0.3]	166645-026	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB34[1]	166645-027	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB34[1]	166645-027	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB30[0.3]	166645-028	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB30[0.3]	166645-028	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB30[1]	166645-029	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB30[1]	166645-029	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP073103B	166645-030	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073103B	166645-030	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB26[1][MSD]	166645-031	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB26[1][MSD]	166645-031	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB26[2]	166645-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB26[2]	166645-032	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP073103C	166645-033	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073103C	166645-033	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB25[1]	166645-034	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB25[1]	166645-034	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB25[2]	166645-035	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB25[2]	166645-035	6010B	Zinc	J-	MS/MSD percent recovery failure
LCBSB22[1]	166668-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB22[2]	166668-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB09[0.3]	166668-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB09[1]	166668-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB04[1]	166668-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB04[0.3]	166668-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB12[1]	166668-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB12[0.3]	166668-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Barium	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB01[0.3]	166668-011	6010B	Chromium	J-	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Cobalt	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[0.3]	166668-011	6010B	Copper	J-	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[0.3]	166668-011	6010B	Nickel	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[0.3]	166668-011	6010B	Selenium	UJ	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Thallium	UJ	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Vanadium	J-	MS/MSD percent recovery failure
LCBSB01[0.3]	166668-011	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[1]	166668-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Barium	J-	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Chromium	J-	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Cobalt	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[1]	166668-012	6010B	Copper	J-	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[1]	166668-012	6010B	Nickel	J-	MS/MSD %R failure, Serial dilution %D failure
LCBSB01[1]	166668-012	6010B	Selenium	UJ	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Thallium	UJ	MS/MSD percent recovery failure
LCBSB01[1]	166668-012	6010B	Vanadium	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCBSB01[1]	166668-012	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
LCPSB23[1]	166668-014	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073103D	166668-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB22[1]	166668-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB26[0.3]	166668-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB26[1]	166668-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB15[1]	166668-020	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB15[2]	166668-021	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP073103E	166668-022	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB14[1]	166668-023	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB14[2]	166668-024	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP080103A	166668-025	6010B	Antimony	UJ	MS/MSD percent recovery failure
LCPSB09[1]	166668-026	6010B	Antimony	R	MS/MSD percent recovery <30%
LCPSB09[1]	166668-026	6010B	Lead	J-	MS/MSD percent recovery failure
LCPSB09[1]	166668-026	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB09[2]	166668-027	6010B	Antimony	R	MS/MSD percent recovery <30%
LCPSB09[2]	166668-027	6010B	Lead	J-	MS/MSD percent recovery failure
LCPSB09[2]	166668-027	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP080103B	166668-028	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
LCPSB08[1]	166668-029	6010B	Antimony	R	MS/MSD percent recovery <30%
LCPSB08[1]	166668-029	6010B	Lead	J-	MS/MSD percent recovery failure
LCPSB08[1]	166668-029	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB08[2]	166668-030	6010B	Antimony	R	MS/MSD percent recovery <30%
LCPSB08[2]	166668-030	6010B	Lead	J-	MS/MSD percent recovery failure
LCPSB08[2]	166668-030	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB10[1]	166668-031	6010B	Antimony	R	MS/MSD percent recovery <30%
LCPSB10[1]	166668-031	6010B	Lead	J-	MS/MSD percent recovery failure
LCPSB10[1]	166668-031	6010B	Zinc	J-	MS/MSD percent recovery failure
LCPSB10[2][MSD]	166668-032	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB03R[5.5]	166682-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB03R[5.5]	166682-001	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB03R[5.5]	166682-001	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB03R[5.5]	166682-001	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB03R[5.5]	166682-001	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB07[5.5]	166682-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB07[5.5]	166682-003	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB07[5.5]	166682-003	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB07[5.5]	166682-003	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB07[5.5]	166682-003	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB12[1]	166682-004	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB12[1]	166682-004	6010B	Arsenic	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Cadmium	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Chromium	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Cobalt	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Lead	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Magnesium	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Nickel	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Selenium	UJ	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Thallium	UJ	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Vanadium	J-	MS/MSD percent recovery failure
BAPSB12[1]	166682-004	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Antimony	R	MS/MSD percent recovery <30%
DUP080103C	166682-005	6010B	Arsenic	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Cadmium	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Chromium	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Cobalt	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Lead	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
DUP080103C	166682-005	6010B	Magnesium	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Nickel	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Selenium	UJ	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Thallium	UJ	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Vanadium	J-	MS/MSD percent recovery failure
DUP080103C	166682-005	6010B	Zinc	J-	MS/MSD percent recovery failure
BAPSB12[3]	166682-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB12[3]	166682-006	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB12[3]	166682-006	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB12[3]	166682-006	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB12[3]	166682-006	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB04[1][MSD]	166682-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB04[1][MSD]	166682-007	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB04[1][MSD]	166682-007	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB04[1][MSD]	166682-007	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB04[1][MSD]	166682-007	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB04[3]	166682-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB04[3]	166682-008	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB04[3]	166682-008	6010B	Copper	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB04[3]	166682-008	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB04[3]	166682-008	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103D	166682-009	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP080103D	166682-009	6010B	Barium	J-	MS/MSD percent recovery failure
DUP080103D	166682-009	6010B	Copper	J-	MS/MSD percent recovery failure
DUP080103D	166682-009	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103D	166682-009	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB16[0.3][MSD]	166682-010	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB16[0.3][MSD]	166682-010	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB16[0.3][MSD]	166682-010	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB16[0.3][MSD]	166682-010	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB16[0.3][MSD]	166682-010	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB16[1]	166682-011	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB16[1]	166682-011	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB16[1]	166682-011	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB16[1]	166682-011	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB16[1]	166682-011	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103E	166682-012	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP080103E	166682-012	6010B	Barium	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
DUP080103E	166682-012	6010B	Copper	J-	MS/MSD percent recovery failure
DUP080103E	166682-012	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103E	166682-012	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB10[1][MSD]	166682-013	6010B	Antimony	R	MS/MSD percent recovery <30%
BAPSB10[1][MSD]	166682-013	6010B	Arsenic	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Cadmium	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Chromium	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Cobalt	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Lead	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Magnesium	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Nickel	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Selenium	UJ	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Thallium	UJ	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Vanadium	J-	MS/MSD percent recovery failure
BAPSB10[1][MSD]	166682-013	6010B	Zinc	J-	MS/MSD percent recovery failure
BAPSB10[2]	166682-015	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB10[2]	166682-015	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB10[2]	166682-015	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB10[2]	166682-015	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB10[2]	166682-015	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB05[7][MSD]	166682-016	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB05[7][MSD]	166682-016	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB05[7][MSD]	166682-016	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB05[7][MSD]	166682-016	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB05[7][MSD]	166682-016	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103F	166682-017	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP080103F	166682-017	6010B	Barium	J-	MS/MSD percent recovery failure
DUP080103F	166682-017	6010B	Copper	J-	MS/MSD percent recovery failure
DUP080103F	166682-017	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
DUP080103F	166682-017	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB05[8.5]	166682-018	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB05[8.5]	166682-018	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB05[8.5]	166682-018	6010B	Copper	J-	MS/MSD percent recovery failure
BAPSB05[8.5]	166682-018	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB05[8.5]	166682-018	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB03R[6.5]	166682-019	6010B	Antimony	UJ	MS/MSD percent recovery failure
BAPSB03R[6.5]	166682-019	6010B	Barium	J-	MS/MSD percent recovery failure
BAPSB03R[6.5]	166682-019	6010B	Copper	J-	MS/MSD percent recovery failure

Table 2
Summary of Qualified Data
The Presidio Trust Small Arms Firing Ranges Site

Sample ID	Lab ID	Analysis Method	Element	Qualifier	Reason
BAPSB03R[6.5]	166682-019	6010B	Lead	J-	MS/MSD %R failure, Serial dilution %D failure
BAPSB03R[6.5]	166682-019	6010B	Zinc	J-	MS/MSD %R failure, Serial dilution %D failure

MS/MSD: Matrix spike/matrix spike duplicate

%R: Percent recovery

%D: Percent difference

R: Result is rejected

J: Detected result is estimated

UU: Non-detected result has an estimated reporting limit

J-: Detected result is estimated with a low bias

J+: Detected result is estimated with a high bias

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
MGBSB04[1]	166460-021	Soil	Barium	94	DUP072203A	166460-022	150	-46%
MGBSB04[1]	166460-021	Soil	Copper	15	DUP072203A	166460-022	21	-33%
MGBSB04[1]	166460-021	Soil	Lead	39	DUP072203A	166460-022	34	14%
MGBSB04[1]	166460-021	Soil	Antimony	0	DUP072203A	166460-022	0	NA
MGBSB04[1]	166460-021	Soil	Zinc	63	DUP072203A	166460-022	64	-2%
LCPSB34[2]	166494-013	Soil	Barium	11	DUP072303A	166494-014	12	-9%
LCPSB34[2]	166494-013	Soil	Copper	2.3	DUP072303A	166494-014	2.4	-4%
LCPSB34[2]	166494-013	Soil	Lead	0.42	DUP072303A	166494-014	0.48	-13%
LCPSB34[2]	166494-013	Soil	Antimony	0	DUP072303A	166494-014	0	NA
LCPSB34[2]	166494-013	Soil	Zinc	14	DUP072303A	166494-014	15	-7%
LCPSB37[2]	166535-009	Soil	Silver	0	DUP072303B	166535-008	0	NA
LCPSB37[2]	166535-009	Soil	Aluminum	3100	DUP072303B	166535-008	3700	-18%
LCPSB37[2]	166535-009	Soil	Arsenic	2	DUP072303B	166535-008	2.4	-18%
LCPSB37[2]	166535-009	Soil	Barium	15	DUP072303B	166535-008	33	-75%
LCPSB37[2]	166535-009	Soil	Beryllium	0.11	DUP072303B	166535-008	0.14	-24%
LCPSB37[2]	166535-009	Soil	Cadmium	0.69	DUP072303B	166535-008	0.86	-22%
LCPSB37[2]	166535-009	Soil	Cobalt	3.5	DUP072303B	166535-008	4.6	-27%
LCPSB37[2]	166535-009	Soil	Chromium	19	DUP072303B	166535-008	22	-15%
LCPSB37[2]	166535-009	Soil	Copper	3	DUP072303B	166535-008	7.1	-81%
LCPSB37[2]	166535-009	Soil	Iron	5900	DUP072303B	166535-008	7700	-26%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
LCPSB37[2]	166535-009	Soil	Magnesium	1500	DUP072303B	166535-008	1700	-13%
LCPSB37[2]	166535-009	Soil	Manganese	97	DUP072303B	166535-008	180	-60%
LCPSB37[2]	166535-009	Soil	Nickel	19	DUP072303B	166535-008	22	-15%
LCPSB37[2]	166535-009	Soil	Lead	1.3	DUP072303B	166535-008	5.7	-126%
LCPSB37[2]	166535-009	Soil	Antimony	0	DUP072303B	166535-008	0	NA
LCPSB37[2]	166535-009	Soil	Selenium	0	DUP072303B	166535-008	0	NA
LCPSB37[2]	166535-009	Soil	Thallium	0	DUP072303B	166535-008	0	NA
LCPSB37[2]	166535-009	Soil	Vanadium	14	DUP072303B	166535-008	16	-13%
LCPSB37[2]	166535-009	Soil	Zinc	12	DUP072303B	166535-008	18	-40%
LCBSB21[1]	166535-035	Soil	Barium	14	DUP072403A	166535-037	15	-7%
LCBSB21[1]	166535-035	Soil	Copper	3.2	DUP072403A	166535-037	5.2	-48%
LCBSB21[1]	166535-035	Soil	Lead	5.9	DUP072403A	166535-037	27	-128%
LCBSB21[1]	166535-035	Soil	Antimony	0	DUP072403A	166535-037	0	NA
LCBSB21[1]	166535-035	Soil	Zinc	17	DUP072403A	166535-037	18	-6%
LCBSB24[1]	166535-045	Soil	Barium	110	DUP072403B	166535-046	21	136%
LCBSB24[1]	166535-045	Soil	Copper	56	DUP072403B	166535-046	3.1	179%
LCBSB24[1]	166535-045	Soil	Lead	6.2	DUP072403B	166535-046	0.48	171%
LCBSB24[1]	166535-045	Soil	Antimony	0	DUP072403B	166535-046	0	NA
LCBSB24[1]	166535-045	Soil	Zinc	17	DUP072403B	166535-046	19	-11%
LCBSB15[2]	166561-009	Soil	Barium	23	DUP072403C	166561-008	14	49%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
LCBSB15[2]	166561-009	Soil	Copper	5.6	DUP072403C	166561-008	3.3	52%
LCBSB15[2]	166561-009	Soil	Lead	5.7	DUP072403C	166561-008	1.9	100%
LCBSB15[2]	166561-009	Soil	Antimony	0	DUP072403C	166561-008	0	NA
LCBSB15[2]	166561-009	Soil	Zinc	22	DUP072403C	166561-008	17	26%
LCBSB02[1]	166561-020	Soil	Barium	20	DUP072403D	166561-022	23	-14%
LCBSB02[1]	166561-020	Soil	Copper	3.6	DUP072403D	166561-022	4.7	-27%
LCBSB02[1]	166561-020	Soil	Lead	3.2	DUP072403D	166561-022	2.5	25%
LCBSB02[1]	166561-020	Soil	Antimony	0	DUP072403D	166561-022	0	NA
LCBSB02[1]	166561-020	Soil	Zinc	19	DUP072403D	166561-022	20	-5%
CHPSB25[1]	166561-030	Soil	Silver	0	DUP072503A	166561-029	0	NA
CHPSB25[1]	166561-030	Soil	Aluminum	4200	DUP072503A	166561-029	4200	0%
CHPSB25[1]	166561-030	Soil	Arsenic	2.4	DUP072503A	166561-029	2.1	13%
CHPSB25[1]	166561-030	Soil	Barium	25	DUP072503A	166561-029	26	-4%
CHPSB25[1]	166561-030	Soil	Beryllium	0	DUP072503A	166561-029	0	NA
CHPSB25[1]	166561-030	Soil	Cadmium	1	DUP072503A	166561-029	1	0%
CHPSB25[1]	166561-030	Soil	Cobalt	4.2	DUP072503A	166561-029	4.1	2%
CHPSB25[1]	166561-030	Soil	Chromium	36	DUP072503A	166561-029	36	0%
CHPSB25[1]	166561-030	Soil	Copper	9.8	DUP072503A	166561-029	7.8	23%
CHPSB25[1]	166561-030	Soil	Iron	9300	DUP072503A	166561-029	9400	-1%
CHPSB25[1]	166561-030	Soil	Magnesium	1700	DUP072503A	166561-029	1700	0%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
CHPSB25[1]	166561-030	Soil	Manganese	120	DUP072503A	166561-029	120	0%
CHPSB25[1]	166561-030	Soil	Nickel	21	DUP072503A	166561-029	21	0%
CHPSB25[1]	166561-030	Soil	Lead	50	DUP072503A	166561-029	53	-6%
CHPSB25[1]	166561-030	Soil	Antimony	0	DUP072503A	166561-029	0	NA
CHPSB25[1]	166561-030	Soil	Selenium	0	DUP072503A	166561-029	0	NA
CHPSB25[1]	166561-030	Soil	Thallium	0	DUP072503A	166561-029	0	NA
CHPSB25[1]	166561-030	Soil	Vanadium	26	DUP072503A	166561-029	26	0%
CHPSB25[1]	166561-030	Soil	Zinc	40	DUP072503A	166561-029	38	5%
BAPSB02[3]	166560-020	Soil	Barium	130	DUP072503B	166560-019	170	-27%
BAPSB02[3]	166560-020	Soil	Copper	15	DUP072503B	166560-019	18	-18%
BAPSB02[3]	166560-020	Soil	Lead	27	DUP072503B	166560-019	18	40%
BAPSB02[3]	166560-020	Soil	Antimony	0	DUP072503B	166560-019	0	NA
BAPSB02[3]	166560-020	Soil	Zinc	81	DUP072503B	166560-019	73	10%
BAPSB17[1]	166599-004	Soil	Barium	31	DUP072803A	166599-005	41	-28%
BAPSB17[1]	166599-004	Soil	Copper	7.5	DUP072803A	166599-005	6.5	14%
BAPSB17[1]	166599-004	Soil	Lead	91	DUP072803A	166599-005	11	157%
BAPSB17[1]	166599-004	Soil	Antimony	0	DUP072803A	166599-005	0	NA
BAPSB17[1]	166599-004	Soil	Zinc	22	DUP072803A	166599-005	31	-34%
CHPSB09[2]	166599-023	Soil	Barium	34	DUP072903A	166599-022	34	0%
CHPSB09[2]	166599-023	Soil	Copper	4.2	DUP072903A	166599-022	4.7	-11%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
CHPSB09[2]	166599-023	Soil	Lead	9.4	DUP072903A	166599-022	4.7	67%
CHPSB09[2]	166599-023	Soil	Antimony	0	DUP072903A	166599-022	0	NA
CHPSB09[2]	166599-023	Soil	Zinc	19	DUP072903A	166599-022	15	24%
CHPSB10[2]	166599-026	Soil	Silver	0	DUP072903B	166599-027	0	NA
CHPSB10[2]	166599-026	Soil	Aluminum	4200	DUP072903B	166599-027	4600	-9%
CHPSB10[2]	166599-026	Soil	Arsenic	2	DUP072903B	166599-027	2.1	-5%
CHPSB10[2]	166599-026	Soil	Barium	18	DUP072903B	166599-027	18	0%
CHPSB10[2]	166599-026	Soil	Beryllium	0.098	DUP072903B	166599-027	0.11	-12%
CHPSB10[2]	166599-026	Soil	Cadmium	0.61	DUP072903B	166599-027	0.68	-11%
CHPSB10[2]	166599-026	Soil	Cobalt	4	DUP072903B	166599-027	4.4	-10%
CHPSB10[2]	166599-026	Soil	Chromium	27	DUP072903B	166599-027	30	-11%
CHPSB10[2]	166599-026	Soil	Copper	2.7	DUP072903B	166599-027	3	-11%
CHPSB10[2]	166599-026	Soil	Iron	6500	DUP072903B	166599-027	7300	-12%
CHPSB10[2]	166599-026	Soil	Magnesium	1800	DUP072903B	166599-027	1900	-5%
CHPSB10[2]	166599-026	Soil	Manganese	89	DUP072903B	166599-027	110	-21%
CHPSB10[2]	166599-026	Soil	Nickel	23	DUP072903B	166599-027	23	0%
CHPSB10[2]	166599-026	Soil	Lead	2.1	DUP072903B	166599-027	2	5%
CHPSB10[2]	166599-026	Soil	Antimony	0	DUP072903B	166599-027	0	NA
CHPSB10[2]	166599-026	Soil	Selenium	0	DUP072903B	166599-027	0	NA
CHPSB10[2]	166599-026	Soil	Thallium	ND<0.2	DUP072903B	166599-027	0.43	100%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
CHPSB10[2]	166599-026	Soil	Vanadium	18	DUP072903B	166599-027	22	-20%
CHPSB10[2]	166599-026	Soil	Zinc	13	DUP072903B	166599-027	14	-7%
CHPSB16[2]	166599-033	Soil	Barium	24	DUP072903C	166599-031	30	-22%
CHPSB16[2]	166599-033	Soil	Copper	4.1	DUP072903C	166599-031	4.8	-16%
CHPSB16[2]	166599-033	Soil	Lead	12	DUP072903C	166599-031	41	-109%
CHPSB16[2]	166599-033	Soil	Antimony	0	DUP072903C	166599-031	0	NA
CHPSB16[2]	166599-033	Soil	Zinc	16	DUP072903C	166599-031	25	-44%
CHPSB07[3]	166624-009	Soil	Barium	28	DUP072903D	166624-008	29	-4%
CHPSB07[3]	166624-009	Soil	Copper	9.8	DUP072903D	166624-008	5.6	55%
CHPSB07[3]	166624-009	Soil	Lead	260	DUP072903D	166624-008	74	111%
CHPSB07[3]	166624-009	Soil	Antimony	0	DUP072903D	166624-008	0	NA
CHPSB07[3]	166624-009	Soil	Zinc	23	DUP072903D	166624-008	16	36%
CHPSB11[1]	166624-030	Soil	Barium	20	DUP073003A	166624-029	24	-18%
CHPSB11[1]	166624-030	Soil	Copper	3.9	DUP073003A	166624-029	4.9	-23%
CHPSB11[1]	166624-030	Soil	Lead	23	DUP073003A	166624-029	51	-76%
CHPSB11[1]	166624-030	Soil	Antimony	0	DUP073003A	166624-029	0	NA
CHPSB11[1]	166624-030	Soil	Zinc	34	DUP073003A	166624-029	45	-28%
CHPSB03[2]	166645-001	Soil	Barium	33	DUP073003B	166645-002	36	-9%
CHPSB03[2]	166645-001	Soil	Copper	3.3	DUP073003B	166645-002	4	-19%
CHPSB03[2]	166645-001	Soil	Lead	13	DUP073003B	166645-002	11	17%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
CHPSB03[2]	166645-001	Soil	Antimony	0	DUP073003B	166645-002	0	NA
CHPSB03[2]	166645-001	Soil	Zinc	18	DUP073003B	166645-002	17	6%
LCBSB41[1]	166645-004	Soil	Barium	14	DUP073003C	166645-003	13	7%
LCBSB41[1]	166645-004	Soil	Copper	3.6	DUP073003C	166645-003	3	18%
LCBSB41[1]	166645-004	Soil	Lead	15	DUP073003C	166645-003	7.9	62%
LCBSB41[1]	166645-004	Soil	Antimony	0	DUP073003C	166645-003	0	NA
LCBSB41[1]	166645-004	Soil	Zinc	45	DUP073003C	166645-003	33	31%
LCBSB20[1]	166645-013	Soil	Barium	13	DUP073003D	166645-015	11	17%
LCBSB20[1]	166645-013	Soil	Copper	3.8	DUP073003D	166645-015	3.1	20%
LCBSB20[1]	166645-013	Soil	Lead	23	DUP073003D	166645-015	19	19%
LCBSB20[1]	166645-013	Soil	Antimony	0	DUP073003D	166645-015	0	NA
LCBSB20[1]	166645-013	Soil	Zinc	16	DUP073003D	166645-015	13	21%
LCBSB18[1]	166645-017	Soil	Barium	12	DUP073003E	166645-016	11	9%
LCBSB18[1]	166645-017	Soil	Copper	3.2	DUP073003E	166645-016	3.6	-12%
LCBSB18[1]	166645-017	Soil	Lead	28	DUP073003E	166645-016	23	20%
LCBSB18[1]	166645-017	Soil	Antimony	0	DUP073003E	166645-016	0	NA
LCBSB18[1]	166645-017	Soil	Zinc	16	DUP073003E	166645-016	16	0%
LCBSB36[1]	166645-022	Soil	Barium	20	DUP073103A	166645-023	14	35%
LCBSB36[1]	166645-022	Soil	Copper	6.7	DUP073103A	166645-023	3.9	53%
LCBSB36[1]	166645-022	Soil	Lead	25	DUP073103A	166645-023	12	70%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
LCBSB36[1]	166645-022	Soil	Antimony	0	DUP073103A	166645-023	0	NA
LCBSB36[1]	166645-022	Soil	Zinc	70	DUP073103A	166645-023	33	72%
LCBSB30[1]	166645-029	Soil	Barium	29	DUP073103B	166645-030	17	52%
LCBSB30[1]	166645-029	Soil	Copper	9.3	DUP073103B	166645-030	4.9	62%
LCBSB30[1]	166645-029	Soil	Lead	7.8	DUP073103B	166645-030	3.7	71%
LCBSB30[1]	166645-029	Soil	Antimony	0	DUP073103B	166645-030	0	NA
LCBSB30[1]	166645-029	Soil	Zinc	18	DUP073103B	166645-030	13	32%
LCBSB26[2]	166645-032	Soil	Barium	12	DUP073103C	166645-033	10	18%
LCBSB26[2]	166645-032	Soil	Copper	2.3	DUP073103C	166645-033	2.1	9%
LCBSB26[2]	166645-032	Soil	Lead	2.1	DUP073103C	166645-033	1.9	10%
LCBSB26[2]	166645-032	Soil	Antimony	0	DUP073103C	166645-033	0	NA
LCBSB26[2]	166645-032	Soil	Zinc	13	DUP073103C	166645-033	12	8%
LCPSB23[1]	166668-014	Soil	Barium	16	DUP073103D	166668-015	12	29%
LCPSB23[1]	166668-014	Soil	Copper	6.9	DUP073103D	166668-015	3.5	65%
LCPSB23[1]	166668-014	Soil	Lead	14	DUP073103D	166668-015	5.4	89%
LCPSB23[1]	166668-014	Soil	Antimony	0	DUP073103D	166668-015	0	NA
LCPSB23[1]	166668-014	Soil	Zinc	32	DUP073103D	166668-015	16	67%
LCPSB15[1]	166668-020	Soil	Barium	12	DUP073103E	166668-022	12	0%
LCPSB15[1]	166668-020	Soil	Copper	3.4	DUP073103E	166668-022	3.6	-6%
LCPSB15[1]	166668-020	Soil	Lead	8.5	DUP073103E	166668-022	11	-26%

Table 3
Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
LCPSB15[1]	166668-020	Soil	Antimony	0	DUP073103E	166668-022	0	NA
LCPSB15[1]	166668-020	Soil	Zinc	17	DUP073103E	166668-022	17	0%
LCPSB14[2]	166668-024	Soil	Barium	11	DUP080103A	166668-025	12	-9%
LCPSB14[2]	166668-024	Soil	Copper	3	DUP080103A	166668-025	3.4	-13%
LCPSB14[2]	166668-024	Soil	Lead	9.3	DUP080103A	166668-025	12	-25%
LCPSB14[2]	166668-024	Soil	Antimony	0	DUP080103A	166668-025	0	NA
LCPSB14[2]	166668-024	Soil	Zinc	17	DUP080103A	166668-025	19	-11%
LCPSB08[1]	166668-029	Soil	Barium	10	DUP080103B	166668-028	11	-10%
LCPSB08[1]	166668-029	Soil	Copper	2.7	DUP080103B	166668-028	3.3	-20%
LCPSB08[1]	166668-029	Soil	Lead	3.1	DUP080103B	166668-028	3.6	-15%
LCPSB08[1]	166668-029	Soil	Antimony	0	DUP080103B	166668-028	0	NA
LCPSB08[1]	166668-029	Soil	Zinc	17	DUP080103B	166668-028	15	13%
BAPSB12[1]	166682-004	Soil	Silver	0	DUP080103C	166682-005	0	NA
BAPSB12[1]	166682-004	Soil	Aluminum	590	DUP080103C	166682-005	6700	-168%
BAPSB12[1]	166682-004	Soil	Arsenic	2.5	DUP080103C	166682-005	2.8	-11%
BAPSB12[1]	166682-004	Soil	Barium	35	DUP080103C	166682-005	38	-8%
BAPSB12[1]	166682-004	Soil	Beryllium	0.19	DUP080103C	166682-005	0.22	-15%
BAPSB12[1]	166682-004	Soil	Cadmium	1.1	DUP080103C	166682-005	1.2	-9%
BAPSB12[1]	166682-004	Soil	Cobalt	7.2	DUP080103C	166682-005	6.9	4%
BAPSB12[1]	166682-004	Soil	Chromium	56	DUP080103C	166682-005	60	-7%

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BAPSB12[1]	166682-004	Soil	Copper	8.8	DUP080103C	166682-005	8.4	5%
BAPSB12[1]	166682-004	Soil	Iron	1100	DUP080103C	166682-005	12000	-166%
BAPSB12[1]	166682-004	Soil	Magnesium	680	DUP080103C	166682-005	5500	-156%
BAPSB12[1]	166682-004	Soil	Manganese	180	DUP080103C	166682-005	180	0%
BAPSB12[1]	166682-004	Soil	Nickel	70	DUP080103C	166682-005	58	19%
BAPSB12[1]	166682-004	Soil	Lead	15	DUP080103C	166682-005	16	-6%
BAPSB12[1]	166682-004	Soil	Antimony	0	DUP080103C	166682-005	0	NA
BAPSB12[1]	166682-004	Soil	Selenium	0	DUP080103C	166682-005	0	NA
BAPSB12[1]	166682-004	Soil	Thallium	0	DUP080103C	166682-005	0	NA
BAPSB12[1]	166682-004	Soil	Vanadium	24	DUP080103C	166682-005	29	-19%
BAPSB12[1]	166682-004	Soil	Zinc	21	DUP080103C	166682-005	23	-9%
BAPSB04[1][MSD]	166682-007	Soil	Barium	140	DUP080103D	166682-009	56	86%
BAPSB04[1][MSD]	166682-007	Soil	Copper	14	DUP080103D	166682-009	7.1	65%
BAPSB04[1][MSD]	166682-007	Soil	Lead	67	DUP080103D	166682-009	13	135%
BAPSB04[1][MSD]	166682-007	Soil	Antimony	0	DUP080103D	166682-009	0	NA
BAPSB04[1][MSD]	166682-007	Soil	Zinc	100	DUP080103D	166682-009	38	90%
BAPSB16[1]	166682-011	Soil	Barium	38	DUP080103E	166682-012	55	-37%
BAPSB16[1]	166682-011	Soil	Copper	4.7	DUP080103E	166682-012	6.8	-37%
BAPSB16[1]	166682-011	Soil	Lead	4.8	DUP080103E	166682-012	24	-133%
BAPSB16[1]	166682-011	Soil	Antimony	0	DUP080103E	166682-012	0	NA

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Summary of Field Duplicate Samples
The Presidio Trust Small Arms Firing Ranges Site

Original Sample #	Lab Sample #	Matrix	Element	Orig. Results	Duplicate Sample #	Lab Sample #	Dup. Results	RPD
BAPSB16[1]	166682-011	Soil	Zinc	20	DUP080103E	166682-012	29	-37%
BAPSB05[7]	166652-016	Soil	Barium	110	DUP080103F	166652-017	110	0%
BAPSB05[7]	166652-016	Soil	Copper	10	DUP080103F	166652-017	9.6	4%
BAPSB05[7]	166652-016	Soil	Lead	17	DUP080103F	166652-017	9	62%
BAPSB05[7]	166652-016	Soil	Antimony	0	DUP080103F	166652-017	0	NA
BAPSB05[7]	166652-016	Soil	Zinc	33	DUP080103F	166652-017	30	10%
LCPSB33[2]	166716-005	Soil	Barium	11	DUP080403A	166716-006	9.1	19%
LCPSB33[2]	166716-005	Soil	Copper	28	DUP080403A	166716-006	24	15%
LCPSB33[2]	166716-005	Soil	Lead	51	DUP080403A	166716-006	60	-16%
LCPSB33[2]	166716-005	Soil	Antimony	0	DUP080403A	166716-006	0	NA
LCPSB33[2]	166716-005	Soil	Zinc	14	DUP080403A	166716-006	14	0%